CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 5, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	Place.	See issue.
8- 7	Track,	Norfolk, Va.....(S)	7-22
8- 7	Building,	Norfolk, Va.....(S.)	7-22
8- 7	*Fire hydrants,	Washington, D. C.....(S.)	7-22
8- 9	Tabulating machines,	Wash, D. C.....(S.)	7-29
8-10	*Curb, etc.,	Hohokus, N. J....(S.)	8- 5
8-13	Stone, etc.,	St. Louis, Mo....(S.)	7-29
8-14	Crane track,	Phila, Pa.....(S.)	8- 5
8-14	Paving, etc.,	Phila, Pa..(P. & S.)	8-29
8-14	Flushing equipment,	Boston, Mass.....(S.)	7-29
8-14	Street paving,	Philadelphia, Pa. (S.)	7-22
8-14	Hospital,	New York.....(S.)	7-22
8-21	Repairing bldg.,	Washington, D. C.....(S.)	7-29
8-28	Store houses,	Portsmouth, N. H.....(S.)	7-29
8-28	Power bldg.,	Vallejo, Cal....(S.)	7-29
8-28	Dredging, slip,	Boston, Mass.(S.)	8- 5
8-28	Rifle butts, etc.,	Phila, Pa...(S.)	8- 5
8-28	Barracks,	Hingham, Mass...(S.)	8- 5
9- 1	*Elec. plant,	Monett, Mo.....(S.)	8- 5
9- 1	*Park system,	Minneapolis, Minn. (S.)	7- 8
9-14	*Pumping engines,	Detroit, Mich. (P. and S.)	7-15

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

8- 6 Elec. light plant, etc., Baudette, Minn..... 8- 5
8-10 Tunnels, conduits, etc., Madison, Wis..... 8- 5
8-11 Elec. equipment, Washington, D. C..... 8- 5
8-12 Lighting, etc., Ft. Leavenworth, Kan..... 8- 5
8-19* Fixtures, West Point, N. Y..... 8- 5
8-14 Power-house, etc., Hudson, N. Y. 7-29
8-18 Elec. equip., Columbus, Ohio..... 7-29
8-18 Wiring, Ft. Wingate, N. Mex.... 8- 5
8-20 Cable, Boston, Mass..... 7-29
8-23 Boilers, etc., Columbia City, Ind. 8- 5
8-28 Power bldg., Vallejo, Cal..... 7-29
9- 1 *Elec. plant, Monett, Mo..... 8- 5

BRIDGES.

8- 6 Reinforced concrete, Chambersburg, Pa..... 7-29
8- 9 Reinforcing, Allentown, Pa..... 7-29
8- 9 Bridge, Springfield, Ohio..... 7-22
8- 9 Bridge work, Chicago, Ill..... 8- 5
8- 9 Bridge, Moose Jaw, Sask..... 8- 5
8-10 Bridge, Taunton, Mass..... 8- 5
8-10 Steel bridge, Griffin, Ga..... 7-29
8-11 Concrete bridge, Cleveland, O.... 7-15
8-11 Bridges, Fargo, N. Dak..... 7-29
8-11 Culvert, Oakland, Cal..... 8- 5
8-12 Bridge, Bonners Ferry, Idaho... 8- 5
8-12 Bridges, Jackson, Ohio 8- 5
8-12 Bridge, Akron, Ohio 7-29
8-14 Bridges, Otterbein, Ind..... 8- 5
8-16 Steel bridges, Lawton, Okla..... 7-29
8-16* Concrete bridge, Phoenix, Ariz.. 7-22
8-17 Bridge, Rumford, Me..... 7-22
8-17 Bridge plans, Asheville, N. C.... 7-29
8-19 Bridge, Zanesville, Ohio..... 8- 5
8-19* Bridge, Virginsville, Pa..... 8- 5
8-20 Bridge, Mount Gilead, Ohio..... 8- 5
8-20 Bridge, Columbus, Ga..... 8- 5
8-20 Bridges, Mitchell, S. Dak..... 8- 5
9-21* Steel bridge, Merced, Cal..... 7-29
8-25* Bridge work, Chicago, Ill..... 7-29
8-28* Steel or concrete bridge, Sebec, Me..... 7-15

BUILDINGS.

8- 7 Building, Norfolk, Va..... 8- 5
8- 7 Institute, Saskatoon, Sask..... 8- 5
8- 7 Court-house, Chehalis, Wash.... 8- 5
8- 9 Post-office, Cumberland, B. C.... 8- 5
8- 9 School, St. Paul, Minn..... 7-29
8-10 Pavilion, etc., Watkins, N. Y.... 7-29
8-10 Hotel, Great Falls, Mont..... 8- 5
8-10 Fire buildings, New York..... 8- 5
8-12 Quarters, Ft. Morgan, Ala..... 7-22
8-13 School, Portsmouth, Ohio..... 8- 5
8-14 Hospital, New York..... 7-22
8-17* Boiler plant, Washington, D. C.. 7-29
8-17 Field offices, New York..... 7-29
8-18 School, St. Paul, Minn..... 7-29
8-20 Barracks, etc., Charleston, S. C.. 7-29
8-21 Repairing bldg., Wash., D. C.... 7-29
8-23 Plans, Reno, Nev..... 8- 5
8-24* Heating, Ft. Warren, Mass..... 7-29
8-26* Quarters, New York, N. Y..... 7-29
8-26 Post-office, Laredo, Tex..... 8- 5
8-28 Barracks, Hingham, Mass..... 8- 5
8-28 Storage houses, Portsmouth, N. H..... 7-29
8-30 Post-office, Paris, Ky..... 7-29
8-31* Post-office, New Orleans, La..... 7-29
8-31 Capitol, Madison, Wis..... 8- 5
9- 6 Court-house, Jasper, Ind..... 7-29
9- 7 Mech. equip., New Orleans, La. 8- 5
9- 9* Post-office, Saratoga Springs, N. Y..... 8- 5
9-18 Hospitals, Chelsea, Mass..... 8- 5

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8- 6 Aqueduct, Salt Lake City, Utah. 7-29
8- 6 Water-works, etc., Baudette, Minn..... 7-29
8- 7* Fire hydrants, Washington, D. C..... 7-22
8- 9* Water system, Lamar, Colo..... 7-22
8- 9 Steel pipe, New Westminster, B. C..... 7-29
8- 9 Water pipe, Arlington, Mass.... 8- 5
8-10 Pipe and specials, etc., Cobalt, Ont..... 8- 5
8-10 Water mains, Greenbush, Minn.. 7-29
8-10 Water system extension, Newberry, S. C..... 7-29
8-11 Water-works, Glasgow, Mont.... 7-29
8-11 Pumping engine, Wheeling, W. Va..... 7-29
8-11 Water-works, Marcellus, N. Y... 8- 5
8-13 Water-works extension, O'Fallon, Ill..... 8- 5
8-13 Water bonds, Chattanooga, Tenn..... 8- 5
8-14 Engines, etc., Maud, Okla..... 8- 5
8-16 Specials, San Francisco, Cal.... 8- 5
8-16 Pumps, Niagara Falls, N. Y.... 8- 5
8-16* Water-works material, Bradford, Ohio..... 7-22
8-16* Reclamation work, North Yakima, Wash..... 7-15
8-16 Supplies, Victoria, B. C..... 7-15
8-17 Water supply, National Military Home, Ohio..... 8- 5
8-17* Dam, New Britain, Conn..... 8- 5
8-18* Water-works, Perry, Ga..... 8- 5
8-18* Water supply extension, Binghamton, N. Y..... 7-29
8-23 Well, Pierre, S. Dak..... 8- 5
8-30* Well, Fort Morgan, Ala..... 8- 5
9- 6 Water-works, Smithfield, N. C... 8- 5
9- 6* Water main, Vicksburg, Miss.. 7-29
9-14 Pumping engines, Detroit, Mich. 7-15

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8- 6 Sewer, Louisville, Ky..... 7-29
8- 7 Sewer laterals, Evansville, Ind.. 7-22
8- 9 Drainage system, Atlantic City, N. J..... 7-22
8- 9 Pipe, New Westminster, B. C.... 7-29
8- 9 Sewer system, San Antonio, Tex. 8- 5
8- 9 Sewer, Fort Dodge, Iowa..... 8- 5
8- 9 Sewer impvt., Cincinnati, Ohio.. 8- 5
8- 9 Sewers, Millburn, N. J..... 8- 5
8-10 Sewer pipe, etc., Washington, D. C..... 8- 5
8-10 Sewerage extension, etc., Newberry, S. C..... 8- 5
8-10 Sewer outlet, Crookston, Minn... 8- 5
8-10* Sewers, Olean, N. Y..... 7-29
8-11 Sewers, Brooklyn, N. Y..... 7-29
8-12 Sewer, etc., Boise, Idaho..... 8- 5
8-13* Sewer, Louisville, Ky..... 7-29
8-14 Sewer, Fort Terry, N. Y..... 8- 5
8-16 Sewers, West La Fayette, Ind.. 8- 5
8-16 Sewer, Hackensack, N. J..... 8- 5
8-17 Sewer, Virginia, Minn..... 8- 5
8-17* Disposal works, Auburn, N. Y.. 7-29
8-18 Sewers, Mount Vernon, S. Dak.. 8- 5
8-18* Sewer, Fort Lee, N. J..... 8- 5
8-19 Sewer, Albert Lea, Minn..... 7-29
8-21 Sewer, Fort Atkinson, Wis..... 8- 5
8-21 Sewers, Xenia, Ohio 8- 5
8-24 Sewers, Marion, Kan..... 8-5
8-24* Sewers, Belmar, N. J..... 7-29
9- 1 Sewers, Rogers, Ark..... 7-29
9- 6* Sewer, Vicksburg, Miss..... 7-29

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8- 6 Paving, Morristown, N. J..... 8- 5
8- 6 Turnpike bonds, Steubenville, Ohio..... 7-29
8- 6 Highway repairs, etc., Albany, N. Y..... 7-22
8- 6* Paving, Lansdowne, Pa..... 7-22
8- 7 Paving, Milwaukee, Wis..... 8- 5
8- 9 Sidewalks, Moose Jaw, Sask..... 8- 5
8- 9 Turnpiking, Youngstown, Ohio.. 8- 5
8- 9 Graveling, West Point, Miss..... 8- 5
8- 9 Paving, Atlanta, Ga..... 8- 5
8- 9* Paving, Great Falls, Mont..... 7-15
8-10 Paving, etc., Bellevue, Pa..... 8- 5
8-10* Curb, etc., Hohokus, N. J..... 8- 5
8-11 Grading, etc., Philadelphia, Pa.. 8- 5
8-11 Grading, etc., Jersey City, N. J.. 8- 5
8-11 Road, Camden, N. J..... 7-22
8-12 Paving, Millersburg, Ohio..... 7-29
8-12 Grading, etc., Gettysburg, Pa.... 7-29
8-12 Cement walks, New York..... 8- 5
8-12 Paving, etc., New York..... 8- 5
8-13* Highways, Albany, N. Y..... 8- 5
8-13 Sidewalks, Pleasant Ridge, Ohio. 8- 5
8-13 Paving, Fort Myer, Va..... 8- 5
8-13 Pike impvt., Cincinnati, Ohio.... 7-29
8-13 Highway repairs, etc., Albany, N. Y..... 7-29
8-14 Macadam, Columbus, Ohio..... 7-29
8-14 Street paving, etc., Philadelphia, Pa..... 7-22
8-14 Road, Scottsburg, Ind..... 8- 5
8-14 Roads, Fort Terry, N. Y..... 8- 5
8-16 Road impvt., Euclid, Ohio..... 7-29
8-16 Road impvt. bonds, Shelby, N. C. 7-29
8-16 Street impvt., St. Paul, Minn... 7-29
8-17 Roads, Anderson, Ind..... 8- 5
8-17* Highway repair, Albany, N. Y.. 8- 5
8-18 Grading, etc., Cleveland, Ohio.. 8- 5
8-20 Macadam, Janesville, Wis..... 7-29
8-21* Driveways, Madison Barracks, N. Y..... 7-29
8-21 Paving, Bellefontaine, Ohio..... 8- 5
8-23 Road, Staunton, Va..... 8- 5
8-23 Grading, etc., Ashland, Ohio..... 8- 5
8-28* Paving block, etc., Norfolk, Va.. 8- 5
8-30 Sidewalks, Fort Howard, Md.... 8- 5
8-30 Road, Rushville, Ind..... 7-29
9- 6 Road, Shelbyville, Ind..... 7-29
9- 6* Paving, Vicksburg, Miss..... 7-29

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8- 5 Canal extension, Scottsbluff, Neb. 8- 5
8- 6 Riprap, etc., Boston, Mass..... 7-29
8- 6 Road roller, Carson City, Nev... 7-29
8- 7 Dredging, Philadelphia, Pa..... 7-29
8- 7 Track, Norfolk, Va..... 7-22
8- 9* Channel, Boston, Mass..... 7-29
8- 9* Dredging, Galveston, Tex..... 7-22
8- 9* Dredging, Oswego, N. Y..... 7-22
8- 9 Drain, Des Moines, Ia..... 7-15
8- 9* Dredging, Wilmington, Del..... 7-22
8- 9 Gate posts, New York..... 7-29
8- 9 Tabulating machines, Washington, D. C..... 7-29
8- 9 Fire hose, New York..... 8- 5
8- 9 Hose, Hartford, Conn..... 8- 5
8-10 Repaving pier, Phila, Pa..... 8- 5
8-10* Snagboat, Dallas, Tex..... 7-22
8-11 Fire engine, Wash., D. C..... 8- 5
8-12 Fountains, New York..... 8- 5
8-12 Iron railways, N. Y..... 8- 5
8-12 Cement, brick, etc., Columbus, O. 7-29
8-13 Stone, St. Louis, Mo..... 7-29
8-13 Ditch, New York..... 8- 5
8-14 Crane track, Philadelphia, Pa... 8- 5
8-14 Wharf, etc., Ft. Terry, N. Y..... 7-29
8-14 Drains, track, paving, Philadelphia, Pa..... 7-29
8-14 Flushing equipment, Boston, Mass 7-29
8-15 Iron posts, Ottawa, Ont..... 7-29
8-16* Dikes, revetment, Kansas City, Mo..... 7-22
8-16* Vacuum system, Grand Rapids, Mich..... 7-29
8-16 Steamer repairs, New York..... 8- 5
8-17* Dock, N. Hempstead, N. Y..... 8- 5
8-17* Cement, Cincinnati, O..... 8- 5
8-17 Drainage Canal, Augusta, Ga.. 7-29
8-18 Battleships, Washington, D. C... 6-24
8-18 Vacuum system, Des Moines, Iowa..... 7-29
8-25* Creek impvt., Syracuse, N. Y.... 8- 5
8-25* Retaining wall, Bay City, Mich.. 8- 5
8-27* Vacuum system, Houston, Tex... 8- 5
8-28 Dredging, slip, Boston, Mass.... 8- 5
8-28 Rifle butts, etc., Phila, Pa..... 8- 5
8-28* Dredging, New York..... 7-29
8-30* Seawall, Galveston, Tex..... 8- 5
9- 1* Tunnel, Chicago, Ill..... 8- 5
9- 1* Park system, Minneapolis, Minn. 7- 8
9-28 Vacuum system, Pierre, S. Dak. 7-15

RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ARKANSAS, OKLAHOMA & PARIS.—This company has been incorporated in Arkansas with $266,000 capital to build from Morris Ferry, Ark., on the Kansas City Southern Ry. at Little River, west to Paris, Tex., 80 miles. The incorporators include P. S. Brown, Jr., and W. S. Pryor, of Kansas City, Mo.; A. D. Dulaney, J. M. Johnson and W. E. Kinsworthy, of Ashtown, Ark.

CANADIAN NORTHERN.—Company is about to start construction of the branch south from Camrose, Alta., which will be 120 miles in length. The company will also build 200 miles of the Begreville-Camrose (Calgary) branch this year.

CANADIAN PACIFIC.—DIXON & MOORE have received the contract for seven miles of the Alberni extension of the Esquimalt & Nanaimo branch.

COLORADO RIVER & YUMA SOUTHERN.—This company has been organized with a capital of $1,000,000 to build from Yuma, Ariz., southward to tidewater at the head of the Gulf of California, also from Yuma north through Bouse, Vicksburg, northern Arizona and Utah to a connection with the San Pedro, Los Angeles & Salt Lake R. R. Surveys now being made by W. F. Bordwell. The project is being backed by J. S. Speece, L. E. Karr, H. C. Kester, of Yuma; N. P. Larson and H. S. Johnson, of Brawley, Cal. Noted on June 24 under title of Karr, Kester & Speese Ry.

CROSSETT RAILROAD.—Incorporated in Arkansas, with $25,000 capital, to build ten miles of railway in Ashley County, from Crossett, Ark. The incorporators include E. W. Gates, of St. Louis; A. Trieschman, C. W. Gates, J. C. Norfleet and E. S. Crossett, of Crossett, Ark.

DENVER & RIO GRANDE.—Second track will be laid as follows, it is announced: Between Colton, Utah, and Kyune, 5.52 miles, at an estimated cost of $150,000; between Helper and Castle Gate, 4.5 miles, to cost $140,000; between Redcliff, Colo., and Pando, 5.53 miles, to cost $174,000. J. G. Gwyn is Ch. Engr., Denver, Colo.

GRAND TRUNK PACIFIC.—It is officially announced that the main line between Winnipeg, Man., and Edmonton, Alta., will be placed in operation on Aug. 15, 1909.

J. D. McARTHUR, Winnipeg, Man., has been awarded the contract for the branch line from Calgary to Tofield, Alta.

The Ontario Railway Board has approved a subsidy of $2,000 and 3,375 acres per mile for 66.16 miles of the Lake Superior branch.

Bids will be received by the company until Aug. 9, for the construction of the main line from mile 120 to mile 255, eastward from Prince Rupert, B. C. G. W. Caye is Asst. Gen. Mgr. and Pur. Agt., Winnipeg, Man.

HOWE SOUND, PEMBERTON VALLEY & NORTHERN.—BOYD & CRAIG, Vancouver, B. C., have received the contract to build this line from Squamish, B. C., to Chee Kee Creek, a distance of 7½ miles. Surveys for an additional 50 miles are now being made. Noted on May 27.

JAMES RIVER VALLEY & NORTHWESTERN.—The projected line of this company is from Blunt, S. Dak., on the Chicago & Northwestern Ry., north by Onida to Gettysburg; also on the C. & N. W., with a branch from Onida, east to Hitchcock, on the C. & N. W., in all 130 miles. A. K. Gardner, Huron, S. Dak., may be addressed. Noted on July 22.

MINNESOTA.—M. D. Rhame, Div. Engr. of the Chicago, Milwaukee & St. Paul Ry. Co., at Minneapolis, has prepared plans for the elevation of the tracks of the company in Minneapolis, and will forward them to Chicago for approval. They provide for the elimination of grade crossings in Minneapolis, and it will involve an expenditure of between $6,000,000 and $7,000,000. This, it is estimated, would be $2,000,000 less than to depress the tracks.

MISSISSIPPI WESTERN.—Construction may be commenced in the fall. This company was organized to build from Meridian, Miss., southwest via Mendenhall and Raleigh to Natchez. Financial arrangements have been made. J. W. Hudson is Vice-Pres.; C. F. Scofield, Secy.; R. L. Corrington, Treas., all of Hazelhurst, Miss. Hon. A. H. Longino is General Counsel, Jackson, Miss.

NORTHERN PACIFIC.—Contract for the construction of the 40-mile line between Missoula, Mont., and the summit of the Bitter Root Mountain in the vicinity of Lolo Pass has been awarded by the Northern Pacific Railway Co. to GRANT SMITH & CO., of St. Paul, Minn. Grant Smith, senior member of the firm, is now on his way to establish headquarters at Missoula from where the construction work will be directed. Work will begin at once.

PENNSYLVANIA R. R.—About $8,000,000 is to be expended by this company for new equipment. Orders are being placed for 8,000 freight cars, of which 2,900 will be additions and the rest will replace worn-out and destroyed cars. This new equipment is for the entire Pennsylvania System, 4,845 cars being for the lines east and 3,155 cars for the lines west of Pittsburg. The Pennsylvania R. R. Co., on account of the requirements of the eastern system, has awarded contracts for 2,950 cars, as follows: To PRESSED STEEL CAR CO., 350 box cars, 350 hopper cars, 500 coke cars; to AMERICAN CAR & FOUNDRY CO., 500 box cars; to STANDARD STEEL CAR CO., 750 hopper cars; to CAMBRIA STEEL CO., 500 coke cars. The company will build in its own shops at Altoona the other 1,895 cars.

TEXAS.—J. J. LANIN, care of Hill & Lee, San Angelo, Tex., has been awarded contract for building a railroad from Sterling City to San Angelo.

TIMPSON & NORTHWESTERN.—The name of this company has been changed to the Timpson & Henderson Ry. Co., it is stated. Charter has been amended providing for purchase of 11½ miles from Ragley to Pine Hill. Construction is proposed from Pine Hill to Henderson, about 14 miles. W. G. Ragley is Pres. and Gen. Mgr. at Ragley, Tex. Capital will be increased from $12,500 to $250,000.

VIRGINIAN FY.—Extensions, aggregating 28 miles, will be built as follows: Stone Coal Branch, three miles long; Laurel Fork extension of Stone Coal Branch, three miles long; Devil's Fork Branch, six miles long; Upper Stone Coal Branch, two miles long; Tommy Creek Branch, 4¾ miles long; Piney Creek extension of the Winding Gulf Branch, eight miles long. H. Fernstrom is Ch. Engr., Norfolk, Va. Noted on April 8.

WATAUGA & DOE RIVER.—Chartered in Tennessee with $10,000 capital to build a line from a point on the Virginia & Southwestern R. R. near Fish Springs, Tenn., to a point on the East Tennessee & Western North Carolina R. R., below Blevins Station (Hopson post-office). The incorporators are C. P. Camp, O. H. Viall, J. R. Fletcher, T. J. Williams and J. H. Tipton, of Fish Spring.

WICHITA FALLS & NORTHWESTERN.—We are officially advised that company now has under construction 27 miles of the extension from Frederick to Altus, Okla., and it will be completed by Aug. 1. Surveys will soon be undertaken for a further extension north from Altus, via Mangum, to Elk City, Okla., about 60 miles, with the view of completing the same during the coming year. The ultimate plans of the company propose further extension of the road into Western Kansas. Frank Kell is Vice-Pres. and Gen. Mgr., Wichita Falls, Tex. Noted on Oct. 1, 1908.

ELECTRIC RAILWAYS.

PRESQUE ISLE, ME.—The first 1,200-volt direct current electric railroad system in New England is to be constructed between Presque Isle and Washburn, Me., with an ultimate extension of 110 miles to the St. John River. It will be built by the Aroostook Valley R. R. Co., which is affiliated with the Canadian Pacific Ry.

HORNELL, N. Y.—The Hornell & Bath Interurban Railway Co., organized to operate an electric road from Hornell to Bath, 24 miles, has been incorporated with a capital of $250,000. The directors included Chas. Adsit, V. N. Armsted and John M. Finch, of Hornell, and J. F. Turk, of Hammondsport, N. Y.

MONONGAHELA, PA.—The Pittsburg, Monongahela & Washington Rys. Co. is making survey, it is stated, for a route for the proposed electric railway, from Monongahela to Washington, 32 miles. At a recent stockholders' meeting the name of the company was changed from the Monongahela & Carroll St. Ry. Co. to the Pittsburg, Monongahela & Washington Railways Co. About 1,700 ft. of track has been laid in Monongahela. The contractors are PHIL & MILLER, Wabash Bldg., Pittsburg. J. W. Bridge is Gen. Mgr.

FLORENCE, S. C.—P. A. Willcox, John L. Barringer, Wm. J. Brown and S. S. Ingram have applied to the City Council for a franchise to build a street railway system in Florence.

BIRMINGHAM, ALA.—The Birmingham & Edgewood Elec. Co. has filed papers of incorporation. Capital, $25,000. Company will build an electric railway from the southern terminus of the South Highlands line, through Rosedale and Edgewood, to a point one-half mile north of Shades' Creek. Stephen Smith is Pres.; Geo. H. Harris is Vice-Pres., and G. T. Brazleton, Secy. and Treas. This company has completed preliminary arrangements and will soon award contracts. All necesary franchises and right-of-way have been secured. It will be about 3¼ miles long. The Board of Revenue has appropriated $10,000 to be used in cutting through Red Mountain, according to plans that have been prepared by the company.

LOUISVILLE, KY.—The Louisville & Eastern R. R. Co. has awarded contract to CHAS. L. CHRISTOPHER, of Louisville, for completion of the L. & E. R. R. from Beechwood to Shelbyville, Ky. Henry Glover is Receiver, Louisville. Noted on July 15.

WATERTOWN, ILL.—The Tri-City, Northeastern & Interurban Ry. Co. has been organized for the purpose of building an electric railway from Watertown to Hampton, Rapids City, Port Byron, Cordova and Albany. Capital stock authorized, $10,000. J. W. Simonson, Port Byron, Ill., is Pres.; W. H. Ashdown, Port Byron, Vice-Pres.; George W. Turner, Hampton, Secy.; C. H. Peck, Albany, Treas.; Wallace Treckler, Ch. Engr., Port Byron, Ill.

*CHICAGO, ILL.—Bids are asked by the Chicago Rys. Co. until Sept. 1 for the reconstruction of the La Salle St. tunnel. For details see advertisement in this issue.

YORKVILLE, ILL.—We are officially advised that the Yorkville & Morris Elec. R. R. Co., which will build an electric railway from Yorkville to Morris, Ill., 22 miles, via Lisbon, will let construction contracts about Sept. 1. Company desires to make financial arrangements with some company regarding first mortgage bonds. Survey is made and right-of-way partly obtained. H. G. Palmer, Aurora, Ill., is Pres. Previously noted.

COLUMBIA, MO.—The City Council has granted a 20-year franchise to the Mexico, Santa Fe & Perry Traction Co. for an interurban electric railway from Mexico to Columbia, a distance of 60 miles. The franchise provides that the railway must be completed in two years. S. L. Robinson, Mexico, is Pres.; C. O. Thon is Ch. Engr.

BENTONVILLE, ARK.—The Arkansas Cooperative Traction Co., recently incorporated to build an electric railway from Bentonville, Ark., to Gentry and Springdale, Ark., via Neosho to Joplin, Mo., has had location surveys made for 40 miles of the route. A bonus of $2,500 per mile has been secured, it is said, and the balance of the capital for the construction will be taken care of by a bond issue. Construction contracts will be let as soon as this bond issue is disposed of. P. H. Sackett, Bentonville, Ark., is Ch. Engr.; Winlock Morris, Bentonville, Ark., is Pres.

EL PASO, TEX.—We are officially informed that the El Paso Electric Ry. Co. has let contract to the STONE & WEBSTER ENGINEERING CORPORATION, Boston, for construction of 7,180 ft. of double-track on Boulevard St., and for the double-tracking of 2,100 ft. of Park Line in El Paso. The contract includes the removal of 14,360 ft. of old track.

DAYTON, WASH.—E. M. Parker, Engr., Spokane, Wash., is making a survey for an electric line which is to be built between Dayton and Wallula. A. P. Cahill is the promoter.

SPOKANE, WASH.—The Big Bend Transit Co. has surveys practically completed for its line, which is to connect Spokane and Davenport. L. F. McCoy is Ch. Engr., Holliday Hotel Bldg., Spokane.

BAKER CITY, ORE.—The Baker Interurban Ry. Co. has been granted a franchise, through its local agent, Anthony Mohr. Surveys are made for its proposed line which will be 22 miles long. A. K. BENTLEY, Portland, Ore., has construction contract. A. E. Hammond, Portland, is Ch. Engr.

ROSEBURG, ORE.—J. H. Sommers and Jacob Haas, of Marshfield, have applied to the County Court for a franchise to construct an electric line in Douglas County. The proposed line is to run from Coos Bay to Roseburg, taking in various small towns, and from Roseburg to the Douglas County line at Diamond Lake, adjoining Klamath County.

ESCONDIDO, CAL.—G. W. Purcell, of San Diego, has applied to the City Council for a franchise for an electric railway to be built from San Diego to Escondido.

ONTARIO, CAL.—The Ontario & San Antonio Heights R. R. Co. has completed surveys and has secured the capital for the construction of its projected 6-mile extension from Uplands to Claremont. Contract for part of this work has been let to PITCHER & GARNSEY, of Los Angeles. G. O. Newman, Los Angeles, Cal., is Ch. Engr. Noted on July 1.

LONDON, ONT.—The London & Northwestern Ry. Co. will build an electric railway from London to Sarnia, passing through Hyde Park, Melrose, Lobo, Poplar Hill, Park Hill and also to Great Bend. It will be about 115 miles in length. Company will erect a repair shop at London. The railway will be bonded for $30,000 per mile. Capital stock, $500,000.

COBOURG, ONT.—The Cobourg, Port Hope & Havelock Electric Ry. Co. has been chartered to construct an electric railway which is to extend across Northumberland County to Warkworth and Campbellford and on to Havelock, with branches to Blairton and to the Marmora mining district, and other branches from a point near Warkworth to Roseneath and Hastings. Incorporators are H. T. Bush and E. S. Huycke, of Port Hope; W. J. Crosen, of Cobourg; Reeve J. Knox, of Havelock; H. A. Ward, of Port Hope, is Secy.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—The Superintendent of the Boston City Hospital has awarded the contract for steam piping and other work in power house and tunnels, etc., at the City Hospital to LYNCH & WOODWARD, 26 Beach St., Boston, at $36,826.

*WEST POINT, N. Y.—Bids are asked until noon, Aug. 19, by the Quartermaster for furnishing and installing electric and combination gas and electric light fixtures in double Officers' Quarters Nos. 10, 11, 12, 13, Lieutenant's Quarters No. 5, and Bachelor Officers' Quarters.

LENNI MILLS, PA.—ALONZO BAKER has been awarded the contract for repairing the dambreast at the Lenni Dam, for the Victoria Plush Mills. The work will last until December.

HANOVER, PA.—The Hanover & McSherrystown Street Ry. Co. has placed contracts with the GENERAL ELECTRIC CO. of Schenectady, N. Y., for a 300-KW. motor generator set, consisting of a 325-KW., 220-volt, 60-cycle, 2-phase a. c. motor and a 300-KW., 600-volt, d. c. interpole generator; and for a switchboard with six panels to control both the a. c. and d. c. current.

PHILADELPHIA, PA.—Bids were received as follows on July 24, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing three vertical, cross-compound, condensing steam engines for the Philadelphia Navy Yard: Robert Wetherill & Co., Inc., Chester, Pa., (1) $46,510, (2) $46,510; Wisconsin Engine Co., Corliss, Wis., (1) $54,250, (2) $46,750, $42,000; Nordberg Mfg. Co., Milwaukee, Wis., (1) $60,500, (2) $49,500; Hooven, Owen, Rentschler Co., Hamilton, Ohio, (1) $64,659, (2) $54,159; Shepherd Engineering Co., Williamsport, Pa., (1) $58,185, (2) $52,185, deduction of $5,868 for omission of generator bases, shafts and bearing stands and flywheels; Ball Engine Co., Erie, Pa., (1) $49,468, (2) $45,287, $42,630; MacIntosh, Seymour & Co., 50 Church St., New York, (1) $54,470, (2) $50,900, alternate $40,450; Westinghouse Electrical & Mfg. Co., Baltimore, (2) $61,500.

BERLIN, MD.—We are officially advised that MURALT & CO., Engrs., 114 Liberty St., New York, have been awarded the contract for furnishing and installing the electrical equipment of the new municipal lighting and pumping plant. Power will be generated and transmitted throughout the city by means of a 2,200-volt, two-phase alternating current system. The alternators will be of the belted type and will be driven by gas engines supplied by producer gas. Step-down transformers reducing the line potential to 110 volts will be provided at the centers of distribution from which the city lighting circuits will be fed.

WASHINGTON, D. C.—Bids are asked by Bernard R. Green, Supt. of Bldg. for Library of Congress, Washington, until 2 p. m., Aug. 11, for furnishing and delivering the distributing switchboard and feeder panel; conduit and fittings; automatic time switches and wire, for electric system of illumination in court book stack of the building for the Library of Congress, in this city.

RICHMOND, VA.—The only bid received on July 21 by the Council Committee on Electricity was submitted by the General Electric Co., of Schenectady, N. Y. This company submitted two propositions, it is stated, one lump sum bid for the electric equipment complete, through Hotchkiss & Gordon, local agents, for the total of $96,592, or $86,682 if allowed to use the present lamps of the Virginia Ry. & Power Co. instead of new equipment. It also submitted a bid independent of its local agents for certain parts, as follows: Arc switchboard, $1,900; lamps and cut-outs, $24,060, and regulator transformer, $12,230.

MADISONVILLE, KY.—All the bids recently received for machinery for the municipal electric light plant have been rejected and new bids will be received. Cost, $7,000. E. B. Robards is Mgr.

FAYETTE, OHIO.—Bids will be received until Aug. 28 for an electric light plant. The village will contract to furnish not less than twenty 2,000-c.p. street lamps. C. H. House is Village Clerk.

COLUMBIA CITY, IND.—Bids are asked by the Common Council until 2 p. m., Aug. 23, for the installation of two 350-HP. vertical water tube boilers with steel stacks in the Municipal Water-works and Electric Light plant. F. T. Schultz is Supt.

PORTLAND, IND.—The City Council has let a contract, it is stated, to the AMES IRON CO., of Cleveland, Ohio, for furnishing a complete equipment for the municipal electric light and power plant. J. B. Milligan is Supt.

MADISON, WIS.—Bids are asked at the office of the Secretary of the University of Wisconsin at Madison until 2 p. m., Aug. 10, for each of the following items: Two steam heating lines, one extending from the present tunnel on Charter St., near the Chemistry Building, north to Linden Drive, thence west to the tunnel line of the Agricultural College, near the Agricultural Engineering Building. The second line will extend from the above proposed line at the corner of Linden Drive and Charter St. north and east to a point east of University Hall, where it shall join the present tunnel lines. Alternate plans and specifications are prepared for (a) concrete tunnel, (b) brick tunnel and (c) a concrete or other suitable form of conduit, approved by the Supervising Architect. Proposals will be received also for: Two water tube boilers of 250-HP. each; two mechanical stokers for same; one steam driven air compressor for heat regulating system; breeching to connect the new boilers to stack. M. E. McCaffrey is Secy. University of Wisconsin.

MILWAUKEE, WIS.—Eugene Liebert, Arch., 105 Wisconsin St., Milwaukee, has awarded mason contract for the $20,000 brick power plant for P. Mayer Boot & Shoe Co. to O. H. BASSERT, of Milwaukee.

BAUDETTE, MINN.—Bids are asked by the Village Clerk until Aug. 6 for certain construction work on water-works and an electric light plant; also a sewer system, from plans of Oscar Clausen, German American Bank Bldg., St. Paul. C. R. Middleton, Village Attorney.

HAWLEY, MINN.—Bids are asked by the Village of Hawley, until 2 p. m., Aug. 13, for constructing electric light and water-works systems. There will be a brick or concrete building, a 50,000-gallon steel tank and tower or air compressor tank and concrete reservoir, distribution pipe line system, dynamo, switchboard and pole line wiring, also pumping plant. O. Claussen, German-American Bank Bldg., St. Paul, Minn., is Engr.

FORT LEAVENWORTH, KAN.—Bids are asked until 11 a. m., Aug. 12, by Capt. William D. Davis, Q. M., for extending and making certain changes in the electric lighting system and fire alarm system at Fort Leavenworth, Kan.

GRAND FORKS, N. DAK.—Bids will be received about Aug. 9 for the construction of an electric light plant; probable cost, $30,000. Earle D. Jackson, Globe Bldg., St. Paul, Minn., is Engr.; W. H. Alexander is City Audr.

*MONETT, MO.—Bids are asked by D. S. Breece, City Clerk, until 8 p. m., Sept. 1, for installing an electric light plant at Monett. L. G. Knapp & Co. are Engrs., New York Life Bldg., Kansas City, Mo. Specifications are on file at the office of Engineering News, New York.

FORT WINGATE, N. MEX.—Bids are asked until 11 a. m., Aug. 18, by the Constructing Quartermaster for wiring the post exchange and gymnasium here.

INDEX, WASH.—J. A. Soderberg and associates, who recently filed a water rights on the Skykomish River, in this state, are planning to erect a power plant to light and furnish power to a number of towns along the Great Northern Ry.

WALLA WALLA, WASH.—The Walla Walla Valley Traction Co. is expected to begin work soon on improvements at this city which will total $125,000, including a $50,000 substation here. A. Welch, Fenton Bldg., Portland, Ore., is Gen. Mgr.

EUGENE, ORE.—A. Welch, Vice-Pres. and Mgr. of the Portland, Eugene & Eastern Ry., running the street car line here, has announced that a water power project probably will be carried out at Martin's Rapids about 30 miles east of Eugene this year, furnishing power for all the company's lines as far north as Albany.

SAN JOSE, CAL.—The Board of Supervisors has awarded to the Los Gatos Ice, Gas & Electric Co. a franchise to construct and operate a line of poles and wires for an electric light and power system in Santa Clara County for a period of 50 years. J. D. Farwell, Manager of the company, states that the concern intends to take in and serve practically all of the foothill country between Los Gatos and Palo Alto, Mayfield, Mountain View, Sunnyvale, Los Altos and vicinity will be connected with the local plant.

TEMPE, ARIZ.—The South Side Gas Co., of Tempe, has decided to construct a gas plant, to cost about $50,000. H. L. Chandler is Gen. Mgr.

TWIN FALLS, IDAHO.—The Great Shoshone & Twin Falls Water Power Co. will start work in August on a power plant they will erect at the lower Salmon Falls.

KENDRICK, IDAHO.—The construction of the electric light plant for which a franchise was given to Richardson Bros., of Wallace, will be started this month.

DUNDAS, ONT.—It is stated that JOHN HAYMAN, of London, Ont., has secured contract for building the transformer station at Dundas for the Hydro-Electric Commission of Toronto for about $40,000.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

BAR HARBOR, ME.—Bids for the construction of the Bar Island bridge were received by the Board of Selectmen on July 10 as follows: The M. Lavorgna Co., of Canton, Me., $73,473; Grady & McCarthy, Bangor, $46,935; Nevels & Stafford, Bar Harbor, $39,550; Philip H. Doyen Co., Portland, $52,750; Small & Ingalls, Bar Harbor, $40,894. The appropriation made by the town for the construction of the bridge was $35,000, and by the failure to come within the appropriation, all of the above bids will be rejected.

*CLINTON, ME.—We are officially advised that contracts have been awarded as follows for the construction of the Hinckley bridge over the Kennebec River between Fairfield and Clinton: To AMERICAN BRIDGE CO., 30 Church St., New York, for superstructure, at $27,630; for concrete masonry under water and first and second class masonry above water, to R. D. SHANAHAN, Portland, Me.

TAUNTON, MASS.—Bids are asked by the city until 4 p. m., Aug. 10, for the construction of a new bridge over Mill River on West Adams St. Edgar L. Chessman is Ch. Engr.

OSWEGO, N. Y.—The city is voted on July 22 to issue $65,000 of bonds for the construction of a bridge at Bridge Charles F. Stowell, of Albany, is Engr. John Smith is Comr. of Wks.

*VIRGINSVILLE, PA.—Bids will be received by A. L. Rhoads, City Controller, Reading, until 10 a. m., Aug. 19, for the erection of a 2-span steel girder with reinforced-concrete floor and macadam roadway over the Maidencreek at Virginsville.

PHILADELPHIA, PA.—We are officially advised that contracts for construction of bridges under Schedule A, bids opened by the Department of Public Works on July 21, have been awarded as follows: Bridge on line of Chelten Ave. under North Pennsylvania R. R., double-track steel-plate girder bridge, 80 ft. span on concrete abutments, to McNICHOL PAVING & CONSTRUCTION CO., 965 Betz Bldg., Philadelphia, at $36,000, to be completed in four months; bridge on line of 62d St. over the Philadelphia, Baltimore & Washington R. R., reinforced-concrete highway bridge, 70 ft. wide, to HENNEBIQUE CONSTRUCTION CO., 1628 Witherspoon Bldg., Philadelphia, at $26,700, four months; bridge on line of Roberts Ave. under Chestnut Hill Branch Connecting Railway, 3-track 3-span steel-plate girder bridge on concrete abutment and piers, to FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia, at $32,300, eight months; bridge on line of Hunting Park Ave. under Chestnut Hill Branch Connecting Railway, double-track 3-span steel-plate girder bridge on concrete abutments and piers, to JOHN McMENAMY, 401 Harrison Bldg., Philadelphia, at $32,800, six months; bridge on line of Hunting Park Ave. under Norristown branch of Philadelphia & Reading Ry., double-track 3-span steel-plate girder bridge on concrete abutments and piers, to McCORMICK & CO., 14 S. Broad St., Philadelphia, at $35,258, six months. List of bidders noted on July 29.

HARRISBURG, PA.—We are officially advised that STUCKER BROS. CONSTRUCTION CO., Harrisburg, has been awarded contract by the State Highway Commissioner for constructing a steel-girder bridge over Philadelphia & Reading Ry. tracks, at $19,940. W. W. Caldwell is Highway Comr.

*WASHINGTON, D. C.—Bids were received as follows on July 31, by the Commissioners of the District of Columbia for removing the bridge at Anacostia, D. C.: (a) removing superstructure, (b) removing timber piles, (c) removing riprap per cu. yd., (d) removing piles between points A and D: John A. Hunter Co., Washington, (a) $4,585, (b) $12.50, (c) $10, (d) $2.50; Penn Bridge Co., Bond Bldg., Washington, (a) $6,344, (b) $4.50, (c) $3, (d) $2.90; E. G. Winston, Washington, (a) $3,443, (b) $12.80, (c) $2.50, (d) $2.50; Alonzo M. Lawson, Andover, Md., (a) $7,565, (b) $1.15, (c) $3, (d) 90 cts.; Martin MacNamara, Washington, (a) $2,800, (b) $5, (c) $2, (d) $3; Sanford & Brooks, Baltimore, (a) $9,950, (b) $10, (c) $5, (d) $4; L. S. Collison & Sons, Baltimore, (a) $3,131, (b) $9.75, (c) $3.50, (d) $2; C. A. Minor and W. B. Bradley, Washington, (a) $6,200, (b) $7.50, (c) $1.50, (d) $2.50.

GREENVILLE, S. C.—Greenville and Pickens Counties have awarded contract to A. D. McCLAIN, Spartanburg, S. C., for constructing a wooden bridge over Saluda River, at $3,100.

COLUMBUS, GA.—Bids will be received until Aug. 29 for construction of a bridge over Baker Creek, between Muscogee and Talbot Counties. E. J. Rankin, Columbus, and A. Mizell, Talbotton, are interested.

MILTON, FLA.—A. D. McCLAIN, Spartanburg, S. C., has been awarded contract, at $5,900, for constructing a steel bridge over Black River.

ZANESVILLE, OHIO.—Bids will be received until Aug. 19 by the Board of County Commissioners, Zanesville, for constructing a riveted truss bridge to have a 73-ft. span, a 12-ft. roadway in the clear, across the south fork of Jonathan Creek at Moody's Crossing, Newton Township. L. E. Breisford is County Audr.

JACKSON, OHIO.—Bids are asked until 1 p. m., Aug. 12, by W. J. Shumate, County Audr., for the following work: One concrete arch bridge in Franklin Township, 61.5 cu. yds.; one concrete arch bridge in Washington Township, 56.5 cu. yds.; one concrete arch bridge, 56.35 cu. yds.; one concrete bridge flat top, Coalton, 37.64 cu. yds.; one concrete bridge flat top in Oak Hill Corporation, 37.64 cu. yds.

EAST LIVERPOOL, OHIO.—DEVOE & CO., of Pittsburg, Pa., have been awarded contract by the Cleveland & Pittsburg R. R. Co. for the new overhead bridge at Elizabeth St., East End. Cost, about $15,000. H. E. Newcommet is Ch. Engr.

MOUNT GILEAD, OHIO.—Bids are asked by the Commissioners of Morrow County until Aug. 20 for furnishing all materials and performing all work, on such parts thereof as bidders may see proper, for the construction of the superstructure and substructure for a steel bridge known as the Jenkins bridge in Cardington Township, bridge to be 60 ft. in length from center to center and roadway 16 ft.

FINDLAY, OHIO.—We are officially advised that J. F. ADAMS, of Findlay, has been awarded contract by the Commissioners of Hancock County for the construction of a bridge over the Philip Heldman ditch. Bids were opened on July 30.

OTTERBEIN, IND.—The Town Trustees will receive bids until Aug. 14 for the construction of two bridges. Fred F. Cline is Chn.

GOSHEN, IND.—The Commissioners of Elkhart County have decided to build a new bridge over Yellow Creek north of Waukarusa. Bids will be asked soon.

CHICAGO, ILL.—Bids are asked until 11 a. m., Aug. 9, by the city for furnishing all materials, tools, labor and all appliances and appurtenances required in the performance of all work and operations necessary in repairing and reconstructing the bridge over the west fork of the south branch of the Chicago River at Kedzie Ave., including approaches thereto. John J. Hanberg is Comr. Pub. Wks.

APPLETON, WIS.—Council has awarded contract for constructing the Pacific St. bridge to the MODERN ENGINEERING CO., of Appleton, at $28,991, and $36,175 for a concrete structure.

MITCHELL, S. DAK.—Bids are asked by H. B. Anderson, County Audr., until Aug. 20, for constructing four bridges.

KANSAS CITY, MO.—The Board of Public Works has awarded contract to the MIDLAND BRIDGE CO., of Kansas City, at $10,-176, to construct a concrete bridge over Brush Creek on Prospect Ave.

ST. LOUIS, MO.—We are officially advised that the lowest bid submitted to the city on July 27 for constructing piers of the municipal free bridge was that of the Missouri Valley Bridge & Iron Co., of Leavenworth, Kan., at $459,836 for limestone, $515,712 for granite and $486,523 for sandstone.

DENVER, COLO.—We are officially advised that on July 24 bids for furnishing, fabricating and erection of steel superstructure of all steel bridges to be built by the office prior to Jan. 1, 1911, were received: The American Bridge Co., 50 Church St., New York, was the low bidder with prices as follows: Steel trusses, 3¾ cts. per lb.; floor beams and joists, 3 cts. per lb.; steel lattice railings, 5 cts. per lb.; tubular piers with bracing, 3 4-10 cts. per lb. The contract has not yet been awarded. Charles W. Comstock is State Engr.

SAN JOSE, CAL.—JOHN DOYLE, San Jose, Cal., has secured contract, at $4,337, for the erection of a new steel bridge at Montague road.

OAKLAND, CAL.—Bids are asked until 10 a. m., Aug. 11, by the Board of Public Works, Walter B. Fawcett, Secy., for labor and materials for constructing concrete culvert in Glen Echo Creek at Grand Ave.

LOS ANGELES, CAL.—The Union Iron Works, Los Angeles, Cal., at $182,700, was the low bidder on July 19 for the main contract for constructing the Buena Vista St. bridge for the city. The work includes 29,140 cu. yds. of reinforced concrete.

BONNER'S FERRY, IDAHO.—Bids are asked by the Secretary of the Bridge Commissioners, until 2 p. m., Aug. 12, for furnishing all materials, including plans and erecting a bridge across the Kootenay River near here. W. A. Leslie is Secy.

MOOSE JAW, SASK.—Bids will be received until Aug. 9 by the Chairman Board of Works for constructing a reinforced-concrete bridge, abutments, etc. J. Darlington Whitmore is City Engr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—A contract in connection with the proposed City Hall, has been let to NORCROSS BROS., of Worcester, Mass. The work to be done under this contract is clearing the lot, taking down the brick chimney, the buildings and the excavation for the foundation and construction of the foundation for the building. The amount is $49,700 and it is anticipated that this work will all be completed by winter. Carrere & Hastings, 225 Fifth Ave., New York, N. Y., are Archs.

HINGHAM, MASS.—Bids are asked by R. C. Holiyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 28, for constructing a marine barracks at the Naval Magazine at Hingham, Mass. Specifications are on file at the office of Engineering News, New York.

CHELSEA, MASS.—Bids are asked until 11 a. m., Sept. 18, by R. C. Holiyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing hospital buildings on the naval hospital reservation at Chelsea, Mass., Newport, R. I., and Portsmouth, N. H.

On July 21 bids were received for constructing a city hall here at Broadway and Washington Ave. on Bellingham Sq. The bids received and opened for the erection of the city hall each contained about 15 clauses. Those which provide for the completion of the structure outside of the heating plant, are as follows: Whiton, Haynes & Co., $212,000; Woodbury & Leighton Co., $234,-551; George E. Fuller Co., $216,711; McNeil Bros., $249,000; Arthur C. Whitney, $223,-984; Guidera Construction Co., $249,900; Anthony Varnerin, $249,681; William Crane, $233,327; Holt, Fairchild Co., $234,000; W. H. Keyes Co., $219,425; Horton & Hemmenway, $223,865; Charles H. Belledue, $229,819; George W. Harney Co., $222,887. The bids received for the heating and ventilating of the city hall were as follows: J. J. Hurley & Co., $23,685; Laskey & McMurrow, $23,-334; Ingalls & Hendricken, $24,970; Huey Bros. Co., $20,867; Albert B. Franklin, $26,-328; William A. Gallison Co., $22,990; James P. Dwyer, $26,414; C. H. Sanborn, $24,791; F. W. Zemeir, $24,775; Isaac Coffin & Co., $26,800. These latter bids all provided for building a tunnel to heat the public library, which will be almost directly opposite city hall on Broadway. Minus the tunnel the bids in most cases were about $3,000 less. William E. McClintock is Ch. Bd. of Control.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., Aug. 10, by Nicholas J. Hayes, Fire Comr., for furnishing all the labor and materials required for completion of new annex and additions and alterations to the present fire headquarters building, located on East 68th and East 67th Sts., between Lexington and Third Aves., Boro. of Manhattan; also for furnishing all the labor and materials required for repairs and alterations to quarters of Hook and Ladder Company No. 18, located at No. 84 Attorney St.

Otto Strack, Arch., 214 East 23d St., has completed plans for the 8-story brick loft building, 22 × 90 ft., to be erected for himself at 212 East 23d St. Cost, about $40,000.

The F. T. NESBIT CO., 116 Nassau St., has secured the contract to erect the proposed home and school for the New York Training School for Deaconesses, 228 East Twelfth St., to be situated in the north side of 110th St., 248 ft. east of Amsterdam Ave., from plans by Heins & La Farge, Archs., 30 East 21st St. The building will be fireproof, eight stories in height, 125 × 64 ft., of brick and limestone construction. The cost will be about $150,000.

Plans are being prepared by Neville & Bagge, Archs., 217 West 125th St., for a high-class apartment house, 99.11 × 67.6 ft., for George Herbener, 415 West 95th St., to be erected at the southwest corner of Broadway and 157th St. Estimated cost, $200,000.

The Realty Associates, 176 Remsen St., Brooklyn, contemplates erecting a 1-story brick and terra cotta theater, 80 × 150 ft., at Livingston and Schermerhorn Sts. The plans are now being prepared by V. Hugo Koehler, Arch., 489 Fifth Ave., New York. The cost is estimated at about $250,000. No bids have yet been taken or contracts made.

NEW YORK, N. Y.—Bids were received as follows on July 29 by William F. Baker, Police Comr., for furnishing all the labor and furnishing and erecting all the materials necessary to build and complete the station house, prison and garage for the 13th Precinct on the ground and premises in the City of New York, on the easterly side of Clinton St., 119 ft. 5 ins. north of northeast corner of Broome and Clinton Sts., Boro. of Manhattan: O'Connell & Hanna, 271 West 125th St., New York, $121,000; N. B. Smythe, 1123 Broadway, New York, $164,561; Geo. Hilderbrand, 38 Park Row, New York, $143,-440; J. & L. Moreland, $142,412; John H. Parker, $139,397; J. M. Walsh & Co., $130,-000; Cramp & Co., $152,496; Thomas B. Leahy Building Co., $151,323; Clare & Stowe, $145,700; Kelly & Kelley, Inc., 45 East 42d St., New York, $136,125; D. J. Ryan, $154,-800; Albert Winternitz, $183,000; F. T. Nesbit, $157,698; Thos. J. Waters Co., $154,000.

The Grace Baptist Congregation, of Brooklyn, has decided to erect a church and Sunday School building at Sixth Ave. and 53d St. Rev. Dr. J. M. McQuillan, 414 58th St., Brooklyn, is Pastor. It has been decided to build of brick and granite, the church to contain a capacity of 700, and the Sunday School 600, measuring about 80 × 115 ft. The cost will approximate $50,000. E. G. W. Dietrich, 30 East 20th St., New York, is preparing the plans.

M. G. Heidelberg, 320 Fifth Ave., has prepared plans for a 6-story flat building, 114.4 × 87.4 ft., to be erected at the southwest corner of Haven Ave. and 181st St., costing $175,000. The Fort View Construction Co., 320 Fifth Ave., is the owner.

Plans have been completed by Koppe & Daube, Archs., 830 Westchester Ave., for a 21-family tenement and store, five stories, 40 × 80 ft., to be erected by the Winnie Realty Co., Maurice Miller, 836 Westchester Ave., Pres., at the southwest corner of Beck St. and Intervale Ave., The Bronx. Cost, $45,000. The owners will take all bids separately.

NEW YORK, N. Y.—P. H. Ohm, Arch. for the City & Suburban Homes Co., 42 East 23d St., has filed plans with the Buildings Superintendent for two additional model tenement houses to be built on the south side of 79th St. east of Ave. A, facing the John Hay Park, and adjoining the existing model tenements overlooking the park. Each building is to have a frontage of 106.3 ft. and a depth of 88.4 ft. and will contain 100 suites of apartments. Each is to cost $100,000.

Young & Gronenberg, 1328 Broadway, have prepared plans for a 5-story flat building, 100 × 114.8 ft., to be erected by the H. Guttman Realty Co., 537 West 187th St., at the northwest corner of St. Nicholas Ave. and 174th St., to cost $150,000.

Plans have been filed with the Buildings Superintendent for the improvement of the plot at the northwest corner of Madison Ave. and 38th St., diagonally opposite the South Church, by a 20-story building to be devoted to lofts and stores and to be erected for the 250 Madison Ave. Co., of which Frederick Johnson is head, from designs by Buchman & Fox, Archs., 9 East 59th St., at a cost of $500,000.

The John J. Hearn Construction Co., 509 Fifth Ave., is taking estimates for a 12-story apartment house to be built at 114th St. and Riverside Drive. The building will be 82 × 135 ft. Cost, $350,000.

SYRACUSE, N. Y.—We are officially advised that Russell & King, Archs., 602 Snow Bldg., Syracuse, have plans for the Odd Fellows' Temple, to be built at South Warren St., near South Salina St., and to cost $40,-000. It will have three stories and basement, brick and stone trimmings. The main entrance will be marble and tile with iron stairway. The structure will have steam heat, electric wiring, plumbing throughout, with gravel roof and hardwood finish throughout. It will be 60 × 114 ft.

John P. Hier, North Salina St., is to erect a store and office building, 44 × 90 ft., of brick with stone trimmings, four stories high and basement. Russell & King, Snow Bldg., are Archs.

SYRACUSE, N. Y.—Merrick & Randall, Archs., S. A. & R. Bldg., Syracuse, are receiving estimates on the general contract, also separate bids for the 4-story fireproof office and store building, 90 × 100 × 50 ft., to be erected at South Salina and Onondaga Sts., Syracuse, for the McCarthy Estate. Estimated cost, $75,000.

The same architects are taking bids for a 3-story brick school, to be erected by Father James P. Magee on Schuyler St., Syracuse, to cost $50,000.

HUDSON, N. Y.—Bids were received as follows on July 28, by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Hudson, N. Y.: William F. Holding, 2426 Davidson Ave., New York, $55,800; Watertown Construction Co., Watertown, N. Y., $61,759; Wm. J. Moran, Inc., Brooklyn, $62,465; Interstate Construction Co., Ltd., Saginaw, Mich., $57,600; R. Richards & Son, Utica, N. Y., $61,222; Andrew J. Robinson Co., New York, $78,927; Durolithic Co., Buffalo, N. Y., $58,543; Feeney & Sheehan Building Co., Albany, N. Y., $71,000; Dean & Havens, Olean, N. Y., $61,503; Conners Bros. Co., Lowell, Mass., $62,000; M. P. Wells, Philadelphia, $59,250; Oscawana Bldg. Co., New York, $59,875; William H. Fissell & Co., New York, $62,770.

*SARATOGA SPRINGS, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Sept. 9, for the construction complete of the U. S. post-office at Saratoga Springs, N. Y.

MONTCLAIR, N. J.—BLAKE & WILLIAMS, 211 West 20th St., New York, have secured the heating contract for the church to be erected at the southeast corner of Church and Trinity Sts., for the First Baptist Congregation, of Montclair. Plans by Pilcher & Tachau, 100 Lexington Ave., call for a building two stories, 100 × 150 ft., limestone, terra-cotta and brick, with a total seating capacity of about 950. Rev. H. E. Fosdick, 14 Trinity St., is Pastor; Richard D. Kimball Co., 437 Fifth Ave., New York, is Consult. Engr. Estimated cost, $90,000.

PHILADELPHIA, PA.—The Morris Building is to be erected at 1411 Chestnut St. The structure will be 18 stories high, with a frontage of 112 ft. 8 ins. on Chestnut St. and a depth of 95 ft. to Ranstead St. It is expected that the building will be finished by June 1, 1910.

Plans for the school for the Roman Catholic parish of St. Edward the Confessor, to be built at Eighth and York Sts., have been finished by Henry D. Dagit, Arch., 435 Chestnut St. Estimates on construction will not be taken until some time in the future.

ANNAPOLIS, MD.—Bids were received as follows on July 31, by R. C. Holiyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for medical officers' in Commandant's quarters, two quarters for junior officers, female nurses' quarters and stable at the Naval Hospital, Annapolis, Md.: Daniel Harding, 15 East Fayette St., Baltimore, $108,000; William H. Fissel, 1133 Broadway, New York, $109,771; George A. Glenn & Co., 928 North Eighth St., Philadelphia, $104,800; Edward Fay & Son, 1521 Ranstead St., Philadelphia, $91,844; W. H. McCray, Bond Bldg., Washington, $104,000; Noel Construction Co., Fidelity Bldg., Baltimore, $91,600.

NORFOLK, VA.—S. B. HUTCHINS has the contract to erect the Burrows Memorial Baptist Church at Lambert's Point.

MONROE, LA.—The following bids have been received for constructing the proposed City Hall: Pauly Jail Building & Mfg. Co., 2215 DeKalb St., St. Louis, Mo., $69,870; A. Skoog, of Monroe, $72,521; Southern Building Co., of Louisville, $59,750. These figures are on the building, without any furnishings and walks, which will bring the total cost up to about $100,000.

NEW ORLEANS, LA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Sept. 7, for the mechanical equipment (excepting elevators), including plumbing, gas fitting, boiler plant, heating and ventilating system, electric generating system, conduit and wiring system, vacuum cleaning system, and clock system, for the U. S. post-office and court-house building at New Orleans, La.

PORTSMOUTH, OHIO.—Bids are asked by the Board of Education until noon, Aug. 13, for the erection of a 4-room brick addition to the Campbell Ave. school building, situate on Campbell Ave. in the city of Portsmouth; and the steam heating of both the old and new additions, according to plans and specifications, at the office of A. B. Alger & Sons, Archs., Portsmouth. William C. Hazlebeck is Clerk.

FORT WAYNE, IND.—Bids are asked by the Trustees of St. Patrick's Roman Catholic Church until Aug. 14, for the construction of a hall, 53 × 130 ft., two stories high, on Butler and South Harrison Sts. Mahuran & Mahuran are Archs.

CHICAGO, ILL.—Two sets of plans for the construction of a $4,000,000 home for the Chicago Board of Trade are being considered. The first plan calls for a structure 260 ft., or 20 stories, in height and occupying the entire ground space of the present Jackson Boulevard site. The second plan is for the erection of a 20-story building on the Jackson Boulevard frontage, with a smaller structure at the rear, on the property off La Salle and Sherman Sts. Frank M. Bunch is Chn. of the Special Com.

BELLEVILLE, ILL.—Bids were received as follows on July 29 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Belleville, Ill.: Hyram Lloyd Building & Construction Co., Odd Fellows' Bldg., St. Louis, Mo., $107,-263; C. L. Gray Construction Co., Victoria Bldg., St. Louis, $106,000; Barnes Bros., Belleville, Ill., $109,235; General Construction Co., Milwaukee, Wis., $107,190; W. H. Fissell & Co., 16 Nassau St., New York, $101,700; Globe Construction Co., Chemical Bldg., St. Louis, $108,100.

MILWAUKEE, WIS.—The Building Committee, Milwaukee County Board of Supervisors, has rejected all bids for the construction of the proposed $75,000 Juvenile Court and Detention Home building at Galena and Eleventh Sts., as being too high. New proposals will be asked for within two weeks.

Frank V. Newell, Arch., 78 La Salle St., Chicago, Ill., is preparing plans for a hotel building for Brock Hotel Co., of Milwaukee, to be erected at Fourth and Sycamore Sts. It will be four stories, building of solid brick construction, 50 × 150 ft., with pressed brick front, stone trimmings, concrete, tile and maple floors.

Bids are asked by Leenhouts & Guthrie, Archs., 104 Wisconsin St., until Aug. 7, for the construction of a home for the Milwaukee Rescue Mission, on Fifth St., between State and Prairie Sts. The building will be of reinforced-concrete construction, 50 × 150 ft., four stories high. It is to be ready Feb. 1, 1910.

MADISON, WIS.—Bids are asked by the Capitol Commission of Wisconsin, Lew F. Porter, Secy., until Aug. 31, for furnishing the necessary labor and material for the construction of the excavation and foundation work, also for the mason, carpenter, and roofing work of the south wing and central portion of the Wisconsin State Capitol, to cost $6,000,000 complete. Plans and specifications by George B. Post & Son, Archs., 347 Fifth Ave., New York.

MILWAUKEE, WIS.—The Sterling Engineering & Construction Co., 603-606 Caswell Block, Milwaukee, will build for itself, on Second St., between Sycamore St. and Grand Ave., a light manufacturing, office and mercantile building. Foundation will be built for ten stories; present construction, four stories. Dimensions, 53 × 150 ft. Reinforced-concrete construction will be used, with terra cotta and enameled tile facing. Cost, $80,-000. Owner will do all work.

The Board of Trustees, Milwaukee-Downer College, Hartford, Glen and Downer Aves., has commissioned Howland Russel, Arch., Hathaway Bldg., to prepare plans for a seminary building, to cost $50,000; and A. C. Eschweiler, Arch., Goldsmith Bldg., to prepare plans for a dormitory building to cost $45,000. Bids will be called for in about four weeks. Miss Ellen Sabin is Pres.

H. W. Buemming, Arch., 521 Jackson St., has awarded general contract on the proposed $75,000 business and light manufacturing building, 40 × 125 ft., to be erected at the corner of Third and Cedar Sts., Milwaukee, by Ephraim Mariner, to WORDEN-ALLEN CO., Port Washington Road and Gibson Corners. The building will have six stories, steel skeleton construction, pressed brick and terra cotta trimmings. Worden-Allen Co. will sub-let other departments of work as needed.

ABERDEEN, S. DAK.—The Chicago & North Western Ry. Co. has plans made for a brick passenger station to cost about $75,-000. E. C. Carter is Ch. Engr., Chicago, Ill.

GREAT FALLS, MONT.—Bids are asked by the Great Falls Water Power & Townsite Co. until Aug. 10, for the construction of an hotel in this city. Estimated cost, $50,-000.

MISSOULA, MONT.—A. B. Hammond, Pres. of the First National Bank and the Missoula Mercantile Co., announces that he intends to make improvements that will cost about $250,000. The Mercantile company will have a 4-story building added to its quarters, and the bank building will be reconstructed.

HELENA, MONT.—Preliminary plans have been submitted to the State Commission by F. M. Andrews, the Waldorf-Astoria Hotel, New York, for the proposed wings to the capitol building. Detailed plans are expected in September, when bids will be called for.

KANSAS CITY, MO.—The directors of the Kansas City terminal station project on July 22 voted acceptance of the ordinance recently passed by the Kansas City Common Council permitting erection of a $20,000,000 union railroad terminal. The ordinance is subject to a referendum vote of Kansas City citizens. It provides for a terminal of six tracks or less. If the special election to be held at Kansas City results favorably, ground for the station will be broken on the 26th St. site by Nov. 1, the financial preliminaries having been settled, it is stated. The site is close to the present Santa Fe station. Several buildings must be razed and some streets vacated for the new station.

LAREDO, TEX.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 2 p. m., Aug. 26, for the additional approach work at the U. S. post-office, court-house and custom-house at Laredo.

CHAPIN, TEX.—Contract has been let to J. WATERSTON and F. A. SCHOENFELDT, of San Antonio, Tex., for the construction of the new Hidalgo County court-house and jail at Chapin, to cost $85,000. County Judge S. P. Silver let the contract.

EAGLE PASS, TEX.—The only bid received by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., on Aug. 2, for a post-office at Eagle Pass, Tex., was that of the King Lumber Co., Charlottesville, Va., at $59,900.

CHEHALIS, WASH.—Bids will be received until Aug. 7, by the Board of County Commissioners for the construction of the proposed Pacific County court-house. Plans and specifications can be seen at the office of C. Lewis Wilson & Co., Archs., 410-11 Melhorn Bldg., Seattle.

ASTORIA, ORE.—The proposed issue of bonds to the amount of $75,000 for building a high school was approved at a recent election.

LOS ANGELES, CAL.—Engineering plans for proposed reinforced-concrete hotel building to be erected at Fifth and Los Angeles Sts. for T. Ashton Fry, of Hollywood, have been prepared by Arthur Rolland Kelley and are now ready for contractors' estimates. The building will have six stories and basement. It has been leased to C. W. Hatch, and will be known as the New Baltimore.

L. C. Crossman will erect a $75,000 apartment house on the corner of Grand Ave. and 17th St. Frederick Noonam and Arthur H. Abbott are Archs. The building will be six stories high.

SAN DIEGO, CAL.—C. H. Edmund Blanchman, Arch., has prepared plans and is asking for bids for the construction of a large pleasure pavilion for the La Jolla Stran.

The members of the Masonic fraternity in this city have accepted plans prepared by Franklin P. Burnham, of this city and Los Angeles, Cal., for a $75,000 Masonic Temple to be erected here. Working plans are now being prepared and bids will be asked for immediately.

YUMA, ARIZ.—F. S. Allen, Arch., of Los Angeles, Cal., has submitted to the Board of Supervisors plans and specifications for the proposed court-house.

OGDEN, UTAH.—The Dee Hospital Co. is receiving bids for the construction of its building, estimated to cost $100,000, including equipment.

VIRDEN, MAN.—Bids will be received until 5 p. m., Aug. 10, for erecting a stone and brick hospital building here according to plans prepared by William Fingland, Arch., 490 Main St., Winnipeg, Man. Miss Ida M. Clingan, Virden, Man., is interested.

WINNIPEG, MAN.—It is reported bids will be called for soon for erection of a union depot here to be used by the Great Northern Ry. and Northern Pacific Ry. companies. A. H. Hogeland, St. Paul, Minn., is Ch. Engr., G. N. R.

The J. J. McLean Co. will erect a $60,000 business block at the corner of Portage and Hargrave Sts. Excavations will be commenced at once.

J. H. TREMBLAY & CO., of St. Boniface, Man., have secured the contract for erecting the proposed public school. Cost, $77,000.

James Chisholm, Arch., McDermott and Albert Sts., is preparing plans for a Methodist Church to cost $60,000. Rev. G. K. B. Adams is Pastor.

The Winnipeg Rubber Co. has completed plans for a 7-story business block to cost $75,000. Work will start at once.

REGINA, SASK.—SNYDER BROS., of Winnipeg, Man., have secured the contract for erecting the proposed hospital here. Cost, $98,269.

SASKATOON, SASK.—Bids will be received until 5 p. m., Aug. 7, by W. P. Bate for erection of a collegiate institute here. Storey & Van Egmond, Regine and Saskatoon, are Archs.

EDMONTON, ALTA.—The A., F. & A. M. have decided to erect a Masonic Temple here to cost approximately $125,000. T. M. Turnbull is Pres.

The contract for constructing the proposed high school here has been awarded to CARMEL & SPENCER, at $105,101.

CUMBERLAND, B. C.—Bids will be received until 5 p. m., Aug. 9, by Nap. Tessier, Secy. of the Dept. of Public Works, Ottawa, Ont., for erecting a post-office building here. Plans and specifications may be seen at the office of James Stewart, Cumberland, B. C., and also at the Department.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The following are the bids opened July 23 for laying 4,200 lin. ft. of 4-in. water pipe with flexible joints in Boston Harbor between Long and Spectacle Islands: George T. Reendle, 28 School St., $14,540; W. H. Ellis, 18 Tremont St., $14,974; John H. Gerrish, Melrose Highlands, $15,962.

ARLINGTON, MASS.—Bids are asked by the Metropolitan Water and Sewerage Board, 1 Ashburton Pl., Boston, until 2.30 p. m., Aug. 9, for laying 1,580 ft. of 12-in. c.-i. water pipe here. Work includes about 300 cu. yds. of rock excavation. William N. Davenport is Secy.

*NEW BRITAIN, CONN.—Bids will be received by the Board of Water Commissioners until Aug. 17 for constructing an earth-concrete dam in the town of Burlington. Percy M. Blake is Ch. Engr.

WATERBURY, CONN.—We are officially advised that F. J. BOAS, 14 South Broad St., Philadelphia, Pa., has been awarded contract, bids opened by the Board of Public Works on July 27, for construction of foundation for new dam at the reservoir at $42,279. Other bidders were: Fields, Barker & Underwood, Philadelphia, $46,925; Fred T. Ley & Co., Waterbury, $53,655; Sperry Engineering Co., New Haven, $49,975; O'Brien Construction Co., $48,525. R. A. Cairns is Engr.

NIAGARA FALLS, N. Y.—Bids will be received by the Water Commissioner until Aug. 16 for nine pumps, piping and valves for the water-works. Estimated cost, about $60,000.

YONKERS, N. Y.—The lowest bid opened on July 19 by the Board of Contract and Supply for furnishing and erecting a boiler plant at the tube well station of the water-works, consisting of two 225-HP. water tube or internally fired boilers with settings, grates, front feed and blow-off piping, gages, etc., was that of the Erie Iron Works, Erie, Pa., at $5,425.

MOUNT MORRIS, N. Y.—The lowest bid submitted to the Village Trustees for the construction of a water-works system here is that of J. C. Swanton & Son, Jamestown, N. Y., at $40,500. Other bidders were: Foote Bros., Mount Morris, $43,004; G. D. Dugan, Olean, N. Y., $41,669; Lehigh Contracting Co., Warwick, N. Y., $43,000.

MARCELLUS, N. Y.—Bids are asked by the Board of Trustees until 7 p. m., Aug. 11, for the completion of water-works system. The work includes 1,900 lin. ft. trenching and laying 4-in. c.-i. pipe, 7,000 lin. ft. trenching and laying 6-in. c.-i. pipe, 18 setting hydrants, ten setting stop valves, 50 cu. yds. rock excavation. Morrison & Farrington, Syracuse, are Engrs.

BALTIMORE, MD.—The Board of Contract and Supply on July 21 awarded contract for boilers to be installed in the city's pipe line pumping station to the EDGEMOOR IRON WORKS, of Edgemoor, Del., at $41,000.

Alfred M. Quick, Water Engr., recommends the installation of an additional pump of 25,000 gallons capacity in the Mt. Royal pumping station to improve the water supply in the western district. Estimated cost, $150,000.

PULASKI, VA.—The Town Council has awarded contract to LOWE & SHOECRAFT, Bristol, for the construction of a storage dam and pipe line leading therefrom to town reservoir, dam to contain 750 cu. yds. of concrete and 20 tons of reinforcement, 15,000 ft. of 12-in. c.-i. mains. Estimated cost, $40,000. G. H. Derrick is Engr.

SMITHFIELD, N. C.—Bids are asked by the Johnston County Commissioners, Sam T. Honeycutt, Clk., until Sept. 6, for a system of water-works for court-house and jail.

*PERRY, GA.—Bids are asked until Aug. 18 by the city for the construction of water-works. Hazelhurst & Anderson, Atlanta, Ga., are Engrs.

MOULTRIE, GA.—The city has awarded contract to the GENERAL PIPE & FOUNDRY CO., Atlanta, Ga., at $11,232 for furnishing water mains and to SULLIVAN & LONG, Bessemer, Ala., at $1,784 for laying same.

R. D. COLE MFG. CO., Newnan, Ga., has received contract at $5,750 for steel standpipe, COLUMBIA IRON WORKS, Chattanooga, Tenn., for hydrants, valves, etc., and PLATT IRON WORKS CO., Dayton, Ohio, at $1,850 for pump. H. S. Jaudon, Box 582, Savannah, Ga., is Engr. Bids were opened on July 20.

*FORT MORGAN, ALA.—Bids will be received by the Constructing Q. M., U. S. A., until 1.30 p. m., Aug. 30, for sinking one 6-in. tubular deep well at Fort Morgan.

CHATTANOOGA, TENN.—Bids will be received until Aug. 13 by W. R. Crabtree, Mayor, for $900,000 of bonds to be issued for the purpose of purchasing or constructing a system of water-works.

NASHVILLE, TENN.—The Board of Public Works will soon award contract for laying 28,000 ft. of water main in annexed territory.

*NEWPORT, KY.—The Board of Water Works on July 21 awarded contracts for water-works improvements as follows, bids opened on July 15: For pumping engines of 5,000,000 gallons capacity, the PLATT IRON WORKS, of Dayton, Ohio, at $37,077; pipe line from reservoir and all of the pipe to JOSEPH GRADISON, of Cincinnati, Ohio, at $36,791; special material and valves, the BOURBON COPPER & BRASS WORKS, Cincinnati, $1,278. Contract for stand-pipe was not let, all bids being considered excessive. John W. Hill & Sons are Consulting Engrs., Cincinnati.

NATIONAL MILITARY HOME, OHIO.—Bids will be received until Aug. 17 by W. H. Ortt, Treas., Central Branch, National Military Home, for the increase and improvement of water supply.

COLUMBIA CITY, IND.—See item under Light and Power Plants.

ANTIOCH, ILL.—Bids will be received until 8 p. m., Aug. 11, by the Board of Local Improvements for 8,000 ft. of 6-in. water mains. Dr. E. H. Ames is Pres.; M. R. Miller, Waukegan, Ill., is Engr.

O'FALLON, ILL.—Bids will be received until 7.30 p. m., Aug. 13, at the office of the City Clerk for material and supplies for the extension to the water-works system. Plans and specifications may be seen at the office of the City Clerk, or Fuller-Coult Co., Engrs., Chemical Bldg., St. Louis, Mo.

COLUMBIA, ILL.—We are officially advised that surveys, plans and specifications are now being made for the construction of water-works and a sewer system here. George Cadogan Morgan, Chicago, is Engr.

HAWLEY, MINN.—See item under Light and Power Plants.

BAUDETTE, MINN.—See item under Light and Power Plants.

CLOQUET, MINN.—Bids will be received until Aug. 16 by the city for the following water and sewer extensions: 3,300 cu. yds. earth excavation, 800 cu. yds. rock excavation, 4,895 ft. 8-in. sewer and 5,230 ft. 6-in. water mains. Estimated cost, $18,000.

SCOTTSBLUFF, NEB.—Bids are asked by Boyd Ehle, Construction Supt. of J. G. White & Co., Inc., Scottsbluff, Neb., until Aug. 5, for the construction of earthwork for the irrigation canal extension for the Tri-State Land Co., from the end of the present canal near Scottsbluff to Red Willow Creek. The work involves the following: Main canal, 465,000 cu. yds. earthwork, 37,500 cu. yds. loose rock, 37,500 cu. yds. hard rock, 1,400 cu. yds. reinforced-concrete structures. Lateral system: 220,000 cu. yds. earthwork, 300 cu. yds. loose rock and 1,300 cu. yds. reinforced-concrete structures.

PIERRE, S. DAK.—Bids are asked until 3 p. m., Aug. 23, by the South Dakota Capitol Commission, John Hirning, Secy., for furnishing all materials, tools and appliances, and drilling and constructing an artesian well, approximately 1,500 ft. deep, upon the capital grounds, Pierre.

TEAGUE, TEX.—The City has awarded contract to LAYNE & BOWLER, Houston, Tex., to supply 200,000 gallons of water daily, water to be secured from wells near pumping station.

DURANT, OKLA.—See item under Light and Power Plants.

MAUD, OKLA.—Bids are asked by the town until 8 p. m., Aug. 14, for two gasoline engines, two triplex power pumps, one 30,000-gallon steel tank on steel tower; also about one mile of 6-in. c.-i. water pipe, with hydrants, valves, etc. M. A. Earl & Co. are Engrs., Muskogee, Okla.

WIGGINS, COLO.—E. E. Morse, J. D. Mowry and Bart A. Clem, directors, and John Myers, Secy., Nile Irrigation district, comprising 50,000 acres of land lying west, southwest, north and northwest of Wiggins, in the eastern part of Morgan County, have signed a contract with the COLORADO CONSTRUCTION CO., of Denver, for building all reservoirs, main line ditches and all inlet and outlet ditches of the Nile system and take bonds of the district in payment.

SEATTLE, WASH.—Bids were opened as follows on July 16 by the Board of Public Works for lining Green Lake reservoirs: MacAdam & Co., Seattle, $224,029; A. R. Gibson, Seattle, $164,164. Ida and Jonas Green, Lake Station, Seattle, $193,362; R. C. McDOUGALL, Lumber Exchange, Seattle, $130,979 (awarded contract); Grant Smith & Co., Portland, Ore., $258,148; International Contract Co., 501 Central Bldg., Seattle, $204,290; Independent Asphalt Paving Co., Theater Bldg., Seattle, $230,225; Sparger Concrete Co., Colman Block, Seattle, $216,689; Chamberlain Construction Co., Seattle, $105,630; Hans Pedersen, Alaska Bldg., Seattle, $217,001; Ferro-Concrete Construction Co., Seattle, $255,619.

The JAHN CONTRACTING CO. has secured contract, at $6,951, for laying water mains in Rainier Ave. and other streets.

LAKEVIEW, ORE.—The HALL CONSTRUCTION CO., 214 Merchants' Trust Bldg., Los Angeles, Cal., J. F. Hanson, Los Angeles, Pres., and R. G. Tryon, Vice-Pres., has been awarded contract by the Oregon Valley Land Co., of Kansas City, Mo., for the construction of an irrigation canal at Lakeview. Estimated cost, $250,000.

NEWMAN, CAL.—Contract for a steel tank and tower for the Newman Water Co., bids opened on July 15, has been awarded to DES MOINES BRIDGE & IRON WORKS, of Des Moines, Iowa, at $6,690. Charles C. Sloan is Consulting Engr.

SAN FRANCISCO, CAL.—Bids are asked by the Board of Public Works until 10 a. m., Aug. 16, for the furnishing and delivering to the city and county of San Francisco, a quantity of cast steel specials, estimated at approximately 2,378 tons for the auxiliary salt water supply system for fire protection. All material must be constructed and delivered in accordance with plans and specifications on file with the board. Marsden Manson is City Engr.

SALT LAKE CITY, UTAH.—The State Board of Land Commissioners on July 15 awarded contract for the puddle wall, which includes the underground working of the Piute reservoir dam, to the WESTERN CONSTRUCTION CO., at $22,679.

BELLEVUE, IDAHO.—Bids will be received about Aug. 10 for water-works improvements. Estimated cost, $10,000. A. H. Wright, of Litchfield, is Engr. Francis Jones is City Clk.

COBALT, ONT.—Bids will be received by P. J. Hart, Town Clk., until Aug. 10 for the following: (a) c.-i. pipe and special castings, (b) hydrants and valves, (c) steel standpipe, (d) vitrified tile pipe and junctions, (e) c.-i. manhole covers, (f) labor and certain materials for the construction of water-works and sewers, (g) erecting pumping machinery. Galt & Smith are Engrs., 23 Jordan St., Toronto.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

DORCHESTER, MASS.—Bids were opened in the office of the Superintendent of Streets on July 26 for the construction of sewers in Talbot Ave., Wescott, West Park and Standish Sts., Dorchester. G. M. Byrne Co. was the lowest of 13 bidders, at $18,319.

TORRINGTON, CONN.—The contract for sewer construction here has been awarded to BERARDINO & SILVESTRI, Hartford, at $7,331. Joseph Mascetti bid $9,250 for the work.

FORT TERRY, N. Y.—Bids are asked until 10 a. m., Aug. 14, by Capt. Chas. T. Baker, Constructing Q. M., U. S. A., New London, Conn., for constructing 5,463 ft. of 6-in. and 10-in. sewer and 551 ft. of 4-in. water extension.

*SYRACUSE, N. Y.—Bids for Contract No. 8, for the completion of the contract for the improvement of Onondaga Creek and known as Contract No. 2, will be received by the Intercepting Sewer Board, 112 Court House, Syracuse, until noon, Aug. 25. The work covers approximately 2½ miles in length. Its principal items are 68,000 cu. yds. excavation and 13,600 cu. yds. concrete blocks and mass concrete. Harry J. Hamlin is Secy.

*HACKENSACK, N. J.—Bids will be received Aug. 16 by the Hackensack Improvement Commission, C. Flubacher, Secy., 193 Union St., Hackensack, for constructing a flat-top concrete sewer in Railroad Ave., Newman and other streets. Advertised last week.

MILLBURN, N. J.—Bids will be received by the Township Committee, Milton R. Sillance, Clk., until Aug. 9 for the construction of certain sewers. Alexander Potter, 114 Liberty St., New York, is Engr.

ELIZABETH, N. J.—The Mayor on July 21 signed the contract with WILLIAM J. CLOUD, contractor, for the construction of the proposed $225,000 trunk sewer. Work is to start at once.

*FORT LEE, N. J.—Bids will be received by the Mayor and Council, at Schlosser's Hotel, Main St., until 8 p. m., Aug. 18, for the construction of a portion of the Dead Brook sewer, including the outlet into the Hudson River. Plans and specifications can be seen and all necessary information obtained at the office of Ralph D. Earle, Jr., Borough Engr., or at Schlosser's Hotel.

WEST HAZELTON, PA.—GEORGE MEINHOLTZ, 15 North Second St., Reading, Pa., has been awarded contract by the city for constructing the Lincoln St. sewer here, at $18,906 for stone and $19,980 for concrete.

BRIDGEVILLE, DEL.—W. G. MORRIS, Phoebus, Va., has been awarded contract, at $27,000, for the construction of the sewerage and water systems for this city. Bids were opened on July 20.

RICHMOND, MD.—LEWIS HALL has secured contract, at 84 cts. per lin. ft., for laying a pipe sewer between Fourth and Fifth Sts.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Department, until 10 a. m., Aug. 10, for furnishing sewer pipe and cesspools.

NEWBERRY, S. C.—Bids are asked until noon, Aug. 10, by the Commissioners of Public Works for the extension of sewerage and water systems. Wilson, Sompayrac & Urquhart, Columbia, S. C., are consulting Engrs.

JELLICO, TENN.—The city has voted $45,000 of bonds for the construction of a sewer system. S. B. Snyder is Mayor.

LOUISVILLE, KY.—We are officially advised that F. G. Mortimer, Chicago, Ill., submitted the lowest bid on July 21 to the Commissioners of Sewerage for the construction of Section D of the Northwestern sewer, oContract 48, at $47,485. J. B. F. Breed is Ch. Engr.

LANCASTER, OHIO.—The Board of Public Service has let contract to JAMES M. LITTRELL, city, at $10,873, for the construction of a branch sewer in storm water sewer district No. 3. George Cunningham is Secy.

CINCINNATI, OHIO.—Bids are asked until noon, Aug. 9, by the Board of Public Service, John J. Wenner, Clk., for labor and materials for the improvement of trunk sewer in streets and right-of-way west of Harrison Ave. north and south of Montana Ave., to Bridgetown road and Muddy Creek road; also, for 24-in. pipe sewer through right-of-way east of Harrison Ave., south of Montana Ave., Westwood.

JACKSON, OHIO.—E. C. McDONNELL, Kenton, Ohio, has been awarded contract for the construction of about 3,500 ft. of 8-in. sanitary sewer. J. W. Turner is Village Engr.

XENIA, OHIO.—Bids will be received by the Board of Trustees of the Ohio Soldiers' and Sailors' Orphans' Home until 7.30 p. m., Aug. 21, for the construction of sewers and installing a sewage disposal plant.

CANTON, OHIO.—See item under Streets and Roads.

WEST LAFAYETTE, IND.—Bids are asked by the Town Board of West Lafayette until Aug. 16 for the construction of a trunk sewer with vitrified collateral sewers. Chas. T. Stallard is Clk.

SHELBYVILLE, IND.—The City Council awarded contract for constructing a sanitary sewer system to the THOMAS SWEENEY CO., Pittsburg, Pa., at $53,737. There were twelve other bidders. Work will be commenced Sept. 1. Bids were opened on July 20.

OXFORD, IND.—The City Council is asking for bids for the construction of a sewer system this fall. The sewer and its collaterals will drain every block in the city. This is preparatory to paving all the streets in the city.

DETROIT, MICH.—The Common Council has awarded contracts for public sewers as follows: Central Ave. sewer, to JAMES HANLEY, 21 Peninsular Savings Bank Bldg., at $44,610; Cameron Ave. sewer, GEORGE W. WINTERHALTER, 165 Columbia St. East, and 34th St. sewer, JOHN A. MERCIER, 210 Hammond Bldg., Bids were opened on July 16.

JOLIET, ILL.—The Board of Local Improvement has let contract to ROBERT SHANNON for constructing the Pleasant St. sewer, at $8,038. William S. Welch is Clk.

FORT ATKINSON, WIS.—Bids are asked by the Board of Public Works until 10 a. m., Aug. 21, for the construction of a sanitary sewer and appurtenances in Maple St.

FORT DODGE, IOWA.—Bids are asked until 5 p. m., Aug. 9, by King E. Beal, City Clk., for labor and materials for constructing a 20-in. and a 24-in. pipe sewer, with ten catch basins.

CLOQUET, MINN.—See item under Water Supply—Irrigation.

VIRGINIA, MINN.—Contract for constructing a sanitary sewer in Dist. No. 3, bids opened on July 20, has been awarded to C. C. BUTLER, of Virginia.

Bids will be received until Aug. 17 by the City Council for constructing a sanitary sewer in the district known as East Division. Albert E. Bickford is City Clk.

CROOKSTON, MINN.—Bids are asked until 8 p. m., Aug. 10, by A. M. Childs, City Clk., for furnishing the materials and repairing and rebuilding the Third St. sewer outlet in sewer district No. 1.

BAUDETTE, MINN.—See item under Light and Power Plants.

ATCHISON, KAN.—T. M. TORSON & VAN WELDER, Kansas City, has secured contract, at $7,980, for the construction of sewer in district No. 1, work includes 100 lin. ft. of 6-in., 7,160 lin. ft. of 8-in., 1,406 lin. ft. of 10-in., 1,398 lin. ft. of 12-in., 180 6-in. 8-in., 2-in., 3 26-in., 10-in., 2-in., 3-in. and 44 6-in., 12-in., 2-in., also twelve manholes, eight lampholes, 13 flush pipe, 3,320 lin. ft. of relay paving, 1,000 lin. ft. of relay sidewalk and 250 cu. yds. of rock excavation. Bids were opened on July 20.

MARION, KAN.—Bids will be received by Thomas W. Bown, City Clk., until Aug. 24 for the construction of about 4,167 ft. of vitrified pipe sewers, 8 to 18-in. diameter, together with 15 manholes. J. W. Mavity is Engr.

MOUNT VERNON, S. DAK.—Bids for the construction of two miles of 8-in. to 20-in. sewers will be received by the City Auditor until 8 p. m., Aug. 18. The Dakota Engineering Co., of Mitchell, S. D., are Engrs.

ST. JOSEPH, MO.—The Board of Public Works on July 14 awarded contracts for sewers as follows: To J. H. HARTMAN, extension of Blacksnake sewer to Broadway, at $37,383; same contractor, for upper Whitehead sewer in South Park, $16,783; to RACKLIFFE & GIBSON, for extension of north fork of Mitchell Ave. sewer through Brookdale, $11,649, to G. O. SKILBRED for Lake Ave. and Eleventh St. sewers, at $6,806.

SAN ANTONIO, TEX.—Bids are asked until 11 a. m., Aug. 9, by Fred Fries, City Clk., for constructing the Prospect Hill sewer system in improvement district No. 7.

DALLAS, TEX.—The Board of Municipal Commissioners have let contract to OCKANDER BROS. at $7,750, for constructing about 6,000 ft. of 8 to 12-in. sanitary sewer.

W. E. Underwood, of Dallas, is the lowest bidder, at $31,765, for the construction of sanitary sewer through the Fair Grounds and South Dallas to Trinity River. J. M. Preston is City Engr.

TACOMA, WASH.—The lowest bid opened by the Board of Public Works for the construction of a storm water sewer in Park Ave. and other streets in the South End has been submitted, it is reported, by the Wells Construction Co., at $16,010.

SEATTLE, WASH.—The Board of Public Works has awarded the following contracts for street improvements: Thirty-second Ave. South and other streets, sewers, to the JAHN CONTRACTING CO.; Third Ave. West and other streets, sewers, to J. RUTHE, at $39,763; East Boston St. and other streets, sewers, to YOUNG & URICH, at $23,998. R. H. Thomson is City Engr.

PASADENA, CAL.—J. S. McBRIDE has been awarded contract for constructing a sewer in Arden road and other thoroughfares at $9,874.

SAN FRANCISCO, CAL.—The Board of Public Works has received three bids for the construction of a section of the Division St. sewer, the lowest being submitted by the Healy-Tibbitts Construction Co., 268 Market St., at $144,000.

BOISE, IDAHO.—Bids are asked until noon, Aug. 12, by the Board of Public Works, D. D. Williams, Pres., for constructing lateral sewer, manholes, flush tanks, flush lines, etc., in lateral sewer district No. 108.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

ROXBURY (Boston post-office), MASS.—The following bids were opened on July 19 for paving Linden Park, Vernon, Whittier, Ruggles, Downing, Simpson and Hampshire Sts.: John E. Burns, $46,535; W. J. Barry, $47,350; J. B. O'Rourke & Co., $47,937; F. H. Cowin & Co., $48,597; Coughlan & Sheila Co., $49,779; Simpson Bros. Corporation, $50,759; Coleman Bros., $51,037; J. Doherty, $51,417; J. H. Ferguson Co., $56,843; D. F. O'Connell Co., $56,870; D. E. Lynch, $58,139; Patrick McGovern, $58,519.

HARTFORD, CONN.—Bids for the construction of state road work were received at the office of the State Highway Commissioner on July 31, as follows:

City of New Britain, 2,372 lin. ft. macadam-telford, on West Main St.: Joseph Mascetti, Torrington, $1.28 and $1.70; the City of New Britain, $1.27 and $1.97; Peter Suzio, New Britain, $1.95 and $2.70; A. C. Sternberg & Sons, West Hartford, $1.25 and $1.87.

Town of Hebron, eight sections gravel and graded road, aggregating 7,167 lin. ft., including two 20-in. and one 24-in. tile culverts: A. E. Douglass, Glastonbury, $11,240.

Town of Oxford, 7,310 lin. ft. gravel-telford, including one 12-in., four 15-in., two 18-in. and one 24-in. tile culverts: E. G. Pardee, Bethany, $1.24 and $1.84; B. D. Pierce, Jr. Co., Bridgeport, $2.42 and $3.12.

Town of Greenwich, 11,369 lin. ft. macadam-telford, on the Boston Post road, including one 24-in. and one 15-in. tile culverts: Joseph Christiano, Greenwich, $2.83 and $3.93; E. N. Clarke, Milford, $1.90 and $2.40.

Town of Farmington, 4,704.4 lin. ft. graded road, including two 24-in. tile culverts: Joseph Mascetti, Torrington, $6,500; F. A. Caldwell, Farmington, $6,543; A. Brazos & Sons, Middletown, $6,454; B. F. Mahan, New London, $4,875; Leonardo Suzio, Meriden, $4,750; Pierson Engineering & Construction Co., Bristol, $4,250; Eveline Bros., New Britain, $4,900.

Town of Burlington, 10,000 lin. ft. graded road, including two 18-in., seven 15-in., two 24-in. and one 12-in. tile culverts: B. F. Mahan, New London, $10,000; Joseph Mascetti, $21,000; A. Brazos & Sons, Middletown, $21,000; Leonardo Suzio, Meriden, $17,800; Pierson Engineering & Construction Co., Bristol, $13,052; Eveline Bros., New Britain, $13,900.

Town of Andover, 8,362 lin. ft. gravel, including three 24-in. tile culverts: Ahern Bros., Norwich, $1.05 per lin. ft. for gravel and $1.50 for telford; Pierson Engineering & Construction Co., Bristol, $1.30 and $1.80; A. E. Douglass, Glastonbury, $1.20 and $1.60; A. Brazos & Sons, Middletown, $1.64 and $1.94; A. D. Bridge's Sons, Hazardville, $1.13 and $1.73.

Town of Thomaston, 6,250 lin. ft. macadam-telford, including one 30-in., eight 15-in. and two 12-in. tile culverts: Pierson Engineering & Construction Co., $4.10 for macadam, and $4.60 for telford; B. D. Pierce Jr. Co., Bridgeport, $4.24 and $5.10; Joseph Mascetti, Torrington, $3.90 and $4.40; Lane Construction Corporation, Meriden, $3.68 and $3.98; Edward McManus, Waterbury, $3.75 and $4.70.

Town of Wilton, First Section, 7,850 lin. ft. gravel, including two 24-in. tile culverts: J. F. Knapp, Belden Hill, $1.50 for gravel and $1.90 for telford; B. D. Pierce, Jr. Co., Bridgeport, $1.70 and $2.40; E. N. Clarke, Milford, $1.49 and $1.99; Second Section, 11,467 lin. ft. gravel, including three 24-in., three 20-in., four 15-in., five 18-in. and one 12-in. tile culverts: J. F. Knapp, $1.15 for gravel, $1.55 for telford, $4.50 for masonry; B. D. Pierce, Jr. Co., $2,18, $3 and $5.

Town of Ridgefield, 553 lin. ft. gravel: J. F. Knapp, $1.15 for gravel and $1.55 for telford.

Town of Trumbull, 17,000 lin. ft. macadam, including six 18-in., five 12-in. and six 15-in. tile culverts: B. D. Pierce, Jr. Co., Bridgeport, $1.84 for macadam, $2.68 for telford, and concrete bridge $800. Also 5,165 lin. ft. macadam-telford, including one 15-in., five 18-in. and two 24-in. tile culverts: R. B. Davis, Hartford, $1.56 for macadam, $2.20 for telford; B. F. Mahan, New London, $2.35 and $2.85; B. D. Pierce, Jr. Co., Bridgeport, $2.30 and $3.

Town of Monroe, 1,015 lin. ft. macadam-telford: R. B. Davis, Hartford, $1.56 and $2.20; B. F. Mahan, $2.35 and $2.85.

FORT TERRY, N. Y.—Bids are asked until 10 a. m., Aug. 14, by Capt. Chas. T. Baker, Constructing Q. M., New London, Conn., for constructing 9,000 lin. ft. of macadam roads at Fort Terry.

NEW YORK, N. Y.—Bids were opened on July 21 at the office of John F. Ahearn, Pres. Manhattan Boro., for regulating and paving with asphalt block on concrete foundation Sherman Ave., from Broadway to Tenth Ave. The lowest bid was that of the Harlem Construction Co., 2 Rector St., as follows: 28,275 sq. yds. asphalt block pavement, $1.49; 5,102 cu. yds. Portland cement concrete, including mortar beds, $6; 3,300 lin. ft. new bluestone curb, furnished and set, $1; 5,100 lin. ft. old bluestone curb, redressed, rejointed and reset, 35 cts. Total, $77,827. The Barber Asphalt Co., 50 Church St., bid $80,004.

The following are the bids opened on July 21 by John F. Ahearn, Pres. Manhattan Boro., for regulating, grading, curbing, flagging, etc., and constructing retaining walls on (a) Arden Ave. and constructing retaining walls on (b) Thayer Ave.: W. T. Seals, (a) $36,127, (b) $31,149; P. J. Duffy, 132d St. and St. Ann's Ave., (a) $38,082, (b) $29,097; C. W. Collins, 91 Fordham Road, (a) $33,417, (b) $27,308; Haggerty Contracting Co., 2459 Davidson Ave., (a) $30,758, (b) $33,632; D. W. Moran, 563 Burnside Ave., (a) $32,901, (b) $29,033; Voorhees-Sullivan Contracting Co., Marion Pl., (a) $34,035, (b) $28,625; W. H. Masterson, 177th St. and Walton Ave., (a) $27,232, (b) $27,308.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. The Bronx, until 11 a. m., Aug. 12, for paving and repaving with asphalt pavement and asphalt block on a concrete foundation the roadways of various streets; also for regulating, grading, setting curbstones, flagging sidewalks, laying crosswalks, etc.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., Aug. 12, for furnishing all the labor and materials necessary to construct and complete cement walks around Parade Ground Building, Prospect Park, Boro. Brooklyn, together with all the work incidental thereto.

SOUTH NYACK, N. Y.—Bids were opened on July 19 by the village for sidewalk improvement on South Broadway. The contract has been awarded to ELDRIDGE & GRANNIS, of Ossining, as follows: Concrete, 22 cts. per sq. ft.; setting curb, 24 cts. per lin. ft., and laying gutter, 10 cts. per lin. ft. Alfred Thomas is Village Clk.

UTICA, N. Y.—Contract was let on July 24 by the Superintendent of Parks to H. W. ROBERTS & CO., Mann Bldg., for parkway, as follows: 15,850 cu. yds. topsoil stripped, 4 cts.; 7,600 cu. yds. material excavated, 44 cts.; 2,675 lin. ft. tile drain, 5-in., 20 cts.; 1,895 lin. ft. vitrified pipe, 12-in., 70 cts.; twelve catch basins, each, $48; 23 hoppers, each, $26; 18,060 sq. yds. bituminous macadam, $1.04; 1,460 lin. ft. concrete curb, 85 cts.; 575 sq. ft. cement walk, $1.17; 2,660 sq. ft. crushed stone walk, 26 cts.; four catch basins, remodeled, each, $16; eleven manholes remodeled, each, $5.

AUBURN, N. Y.—The Common Council on July 22 approved plans submitted by the City Engineer for asphalt pavement on a portion of Hoopes Ave.

WATERTOWN, N. Y.—The Board of Public Works on July 21 awarded contract to CONROY & MIXDORF, of Oneida, N. Y., for paving Main St., at $14,210.

ALBANY, N. Y.—The Board of Contract and Supply has awarded contracts as follows: To the NORTH HUDSON CONTRACTING CO., Albany, for the improvement of Morris St., from Lake Ave. to Ontario St., at $19,715; and for the improvement of Myrtle Ave., from South Lake Ave. to Quail St., at $9,879. To JOHN M. HOLLER, Albany, for the improvement of State St., From Quail St. to Ontario St., at $9,443. To NORTH HUDSON CONTRACTING CO., Albany, for paving North Pearl St. near the Homeopathic Hospital, on concrete foundation, at $7,080. Walter Melius is City Engr.

*ALBANY, N. Y.—Bids are asked by the Commission of Highways, Albany, until 1 p. m., Aug. 17, for repair or resurfacing of highways in Monroe, Erie, Albany and Schenectady Counties. S. Percy Hooker is Chn. For details see advertisement.

ALBANY, N. Y.—The following bids were received by the Board of Contract and Supply on July 28: For the improvement of Montgomery St., from Livingston Ave. to Lawrence St.: Holler & Shepard, Rochester, N. Y., $14,999; Michael F. Dollard, Albany, $12,875; North Hudson Contracting Co., Albany, $14,209; Mulderry Bros., Albany, $13,932; Edward F. Dillon, Albany, $15,198; John M. Holler, Albany, $13,252. Contract was awarded to MICHAEL F. DOLLARD, Albany, at $12,875. For improvement of Lincoln Ave. from Allen St. to West Lawrence St.: Morris Kantrewitz, Albany, $6,006; Holler & Shepard, Rochester, $7,021; North Hudson Contracting Co., Albany, $7,285; Mulderry Bros., Albany, $6,819; Edward F. Dillon, Albany, $7,679; John M. Holler, Albany, $7,490. Contract was awarded to MULDERRY BROS., Albany, at $6,819. For the improvement of Mohawk St., from Broadway to west of North Pearl St.. North Hudson Contracting Co., Albany, $13,056; Michael F. Dollard, Albany, $11,981; Holler & Shepard, Rochester, $13,218; Edward F. Dillon, Albany, $13,542; John M. Holler, Albany, $11,945; Mulderry Bros., Albany, $12,595. Contract was awarded to JOHN M. HOLLER, Albany, at $11,945. For the improvement of Washington Ave., from Lexington Ave. to North Lake Ave.: Michael F. Dollard, Albany, $31,603; North Hudson Contracting Co., Albany, $33,176; Edward F. Dillon, Albany, $38,578; Holler & Shepard, Rochester, $33,424; John M. Holler, Albany, $33,477; Mulderry Bros., Albany, $32,702. Contract was awarded to MICHAEL F. DOLLARD, Albany, at $31,602. For repaving the Knox St. viaduct: Edward F. Dillon, Albany, $3,963; North Hudson Contracting Co., Albany, $3,181; Mulderry Bros., Albany, $3,660; Holler & Shepard, Rochester, $3,882; Michael F. Dollard, Albany, $3,445; John M. Holler, Albany, $3,428. Contract was awarded to NORTH HUDSON CONTRACTING CO., Albany, at $3,181. Walter Melius is City Engr.

*ALBANY, N. Y.—Bids are asked by the State Commissioner of Highways, Albany, until 1 p. m., Aug. 13, for the repair, or resurfacing of highways in Herkimer, Jefferson, Clinton, Saratoga, Rensselaer and Washington Counties. S. Percy Hooker is Chn. For details see advertisement.

MORRISTOWN, N. J.—Bids will be received until Aug. 6 by the town for regulating, curbing and paving with vitrified brick of block size, Washington St., about 2,500 sq. yds. Nathaniel C. Toms is Town Clk.

JERSEY CITY, N. J.—Bids will be received until Aug. 11 by the New County Bldg. Committee, Alex. J. Clements, Clk., for grading, sodding, paving, drainage and other work for improving the grounds surrounding the new court-house on Newark, Baldwin and Pavonia Aves. Hugh Roberts is Arch., 1 Exchange Pl.

*BAYONNE, N. J.—We are officially advised that W. T. S. CRITCHFIELD, New York, has been awarded contract by the city for paving Broadway, bids opened on July 6, at $166,975. F. W. Dalrymple is City Engr.

HACKENSACK, N. J.—The Hackensack Improvement Commission on July 27 awarded contract to macadamize the streets of this place to JAMES F. SUSCO, of Newark, at $40,022. The bid is $7,000 lower than the next lowest, and is nearly $20,000 under the amount of the bond issue for $60,000 voted for on June 28 last.

*HOHOKUS, N. J.—Bids will be received by the Borough Council until 8.30 p. m., Aug. 10, for laying about 18,000 lin. ft. of concrete curb and about 72,000 sq. ft. of concrete sidewalks, with the necessary grading of sidewalks, etc. Cinders for foundation can be procured on the grounds of the Hohokus bleachery adjacent to the work, to be screened when necessary as directed. Specifications are on file at the office of Engineering News, New York. William H. Deer is Boro. Clk.

PHILADELPHIA, PA.—Bids are asked by George R. Stearns, Dir. Pub. Wks., until noon, Aug. 11, for grading, paving, repaving and other work appurtenant to the abolishment of grade crossings along the P. G. & N. R. R.

*PHILADELPHIA, PA.—George R. Stearns, Dir. Pub. Wks., on July 30 awarded contract to EDWIN H. VARE, Betz Bldg., for paving Market St. with wood block.

Plans and specifications are on file at the opice of Engineering News, New York, for street paving, curbing, railroad track, drains at Navy Yard, Philadelphia. Bids are asked by Bureau Yards and Docks, Navy Dept., Washington, D. C., until Aug. 14.

BELLEVUE, PA.—Bids will be received until Aug. 10 by James M. Simeral, Clk. Council, 69 Harrison Ave., for paving Monroe and Howard Aves. and repaving Lincoln Ave., requiring in all 7,970 sq. yds. John McBridge is Boro. Engr., Fitzsimmons Bldg., Pittsburg.

LATROBE, PA.—Bids were opened on July 19 by the borough for grading, curbing and paving portions of Lloyd Ave. and Unity St., requiring in all 6,706 cu. yds. excavation, 12,125 sq. yds. paving and 7,640 lin. ft. concrete curb and water table. Contract has been awarded to RINEHART BROS., of East Liverpool, Ohio, at $18,820. E. M. Eaton is Secy.

FORTYFORT, PA.—The B. G. COON CONSTRUCTION CO., 610 Second National Bank Bldg., Wilkes-Barre, has secured contract for paving Wyoming Ave. with Clearfield brick; 56,000 yds. of paving and about four miles of Wainwright steel protected curb. Estimated cost, about $130,000, to be completed Nov. 1, 1910.

FORT HOWARD, MD.—Bids will be received by Maj. S. C. Ballou, Constructing Q. M., U. S. A., Room 427, Custom House, Baltimore, until Aug. 30, for about 15,000 sq. ft. of granolithic sidewalks at Fort Howard.

FORT MYER, VA.—Bids are asked until 11 a. m., Aug. 13, by the Constructing Q. M., U. S. A., for paving main passageways with vitrified brick, and concrete as alternative, in four cavalry stables at Fort Myer.

STAUNTON, VA.—Bids are asked until noon, Aug. 23, by the County Supervisors, Harry Burnett, Clk., for constructing 4½ miles of macadam road. Plans with County Clerk and at office of State Highway Commissioner, Richmond, Va.

*NORFOLK, VA.—Bids will be received at the office of the Board of Control until 12.30 p. m., Aug. 28, for about 8,500 tons of granite paving block, 10,000 ft. of granite curb, and 14 sets of corners.

BLUEFIELD, W. VA.—The city will extend and macadamize Princeton Ave.

GREENSBORO, N. C.—Guilford County has decided to macadamize 16 miles of road.

ATLANTA, GA.—Bids are asked until Aug. 9 by the city for paving 22,000 sq. yds. on Decatur St. with wooden blocks on concrete foundation, and 2,300 sq. yds. on Madison Ave. with same material. R. M. Clayton is City Engr.

BESSEMER, ALA.—The city has awarded contract to C. M. BURKHALTER & CO., Birmingham, Ala., for laying sidewalks on Berkeley, Dartsmouth and Clarendon Aves., at 39 cts. per yd. for curbing and 82 cts. for cement work. Total cost, $3,641.

GADSDEN, ALA.—The city has awarded contract at $41,040 for 22,000 yds. of granite curbing, and at $40,128 for concrete curbing to the GRAVES-MATTHEWS PAVING CO., of Birmingham, Ala.

WEST POINT, MISS.—Bids will be received by J. L. Young, City Clk., until Aug. 9 for graveling the streets of this city within the fire limits, and laying cement gutters also.

BATON ROUGE, LA.—About 16 miles of road will be constructed by convict labor under the direction of the State Board of Engineers. This will be the first link in 116 miles of road connecting New Orleans and Baton Rouge. The parishes traversed will furnish the material, the character of which has not yet been definitely determined. Joseph Gebelin is Pres. and F. A. Woods, Audr. Police Jury, Baton Rouge.

LAFAYETTE, LA.—The city has awarded contract to the WEST CONSTRUCTION CO., of Chattanooga, Tenn., for constructing cement walks along Congress and Washington Sts. G. A. Martin is Mayor.

ELIZABETHTON, TENN.—The city has voted the issuance of $30,000 of bonds for a street and sewer.

BELLEFONTAINE, OHIO.—Bids are asked until noon, Aug. 21, by the Board of Public Service, Vance Horn, Clk., for paving South Detroit St., the work including about 6,700 sq. yds. of brick paving. Clair A. Inskeep is City Engr.

ASHLAND, OHIO.—Bids will be received until Aug. 23 by the Mayor and Village Council for grading and paving Second St. Bids on labor and material must be stated separately. E. L. Berry is Engr., Ashland.

CANTON, OHIO.—Bids will be received until noon, Aug. 9, by the Board Public Service, C. A. Sellers, Clk., for paving portions of West Tuscarawas, Wheeler and East Eighth Sts., Woodland, Louis, Belden and Bellevue Aves., and for constructing a sewer in two alleys.

YOUNGSTOWN, OHIO.—Bids will be received until Aug. 9 by the County Commissioners, Youngstown, Samuel Brunstetter, Chn., for turnpiking road in Dist. No. 1 of Mahoning County a distance of 17,641 ft.

CLEVELAND, OHIO.—Bids will be received until Aug. 18 by the Board County Commissioners, William F. Black, Clk., for grading draining and improving Miles Ave., No. 3 road improvement in Warrensville, Bedford and Solon Townships.

PLEASANT RIDGE, OHIO.—Bids will be received until Aug. 13 by W. C. Davies, Clk., Village Council, for constructing artificial stone sidewalks on Williams and Liberty St. and Carthage Ave.

LIMA, OHIO.—W. N. ANDREWS & CO., of Hamilton, Ohio, were awarded contracts on July 20 by the city for the paving of Market and Spring Sts. with asphalt. Estimated cost, $100,050.

PETERSBURG, IND.—The citizens of Logan Township, Pike County, have voted to build four miles of rock road. Estimated cost, $13,000. Bids will be asked soon.

INDIANAPOLIS, IND.—The Commissioners of Marion County will soon ask for bids for the construction of three miles of gravel road on line between Marion and Hancock counties. Albert Sahm is County Audr.

SCOTTSBURG, IND.—Bids are asked by the Commissioners of Scott County until 11 a. m., Aug. 14, for the construction of 13,195 ft. of gravel road in Jennings Township and 10,580 ft. of gravel road in Johnson Township. Frank Gardner is County Audr.

ANDERSON, IND.—Bids are asked by the Commissioners of Madison County until 10 a. m., Aug. 17, for the construction of the following roads: Furguson gravel road in Pipe Creek Township, 4,439 ft. in length; Hugel gravel road in Anderson, Richland and Union townships, 13,448 ft. in length; Rector gravel road in Union and Adams townships, 15,682 ft. in length; Snowhill gravel road in Duckcreek Township, 13,320 ft. long; Larmore gravel road in Anderson Township, 2,614 ft. in length. William T. Richards is Audr.

CLINTON, IND.—Contract for constructing 250,000 sq. ft. of cement sidewalk, bids opened on July 15, has been awarded by the city to PIERSON & KINSER, of Terre Haute, at 6½ cts. per sq. ft. Best American Portland cement to be used, 1 to 7 mixture, 3½ ins. thick, and top ½-in. thick mixture 1 to 2 laid on foundation of gravel and sand. Alfred M. Danely is City Engr.

INDIANAPOLIS, IND.—Board of Public Works has ordered plans and specifications upon which to ask bids on the following street improvements by grading and paving roadway and laying cement sidewalks: Michigan St., from Rural to Gray Sts.; Eastern Ave., from St. Clair to Tenth Sts.; Schurman Ave., from 13th to 32d Sts.; Gladstone Ave., from Washington to Michigan Sts.; Oakland Ave., from Michigan to North Sts.; South St., from Virginia Ave. to New Jersey St.; Meridian St., from Southern Ave. to Pleasant Run bridge; 16th St., from Rural St. to Park Ave.; Delaware St., from first alley north to North St., and Defrees St., from Temple Ave. to first alley east. J. T. Elliott is Chn.

GOSHEN, IND.—The Board of Public Works has ordered plans on which to receive bids for opening and paving Prairie St. George H. Rimpler is Clk.

KIMBALL, MICH.—F. PORATH & SONS, of Detroit, have secured contract for macadamizing about ten miles of road at $28,000. Wilford Tomlinson is Comr. Highways.

CHICAGO, ILL.—The following submitted the lowest bids on July 21 to the Board of Local Improvements: For paving Clarinda St. from Ashland Ave. to Wood St., M. H. McGovern Co., Chicago, at $1.73 per sq. yd.; for laying creosote blocks in Quincy St., between State and Dearborn Sts., B. A. Thatcher, at $2.82 per sq. yd. John J. Hanberg is Comr. Pub. Wks.

MILWAUKEE, WIS.—The Board of Public Works has awarded contracts for paving with asphalt, Marietta Ave., from Newberry Boulevard to Folsom Place, and Hackett Ave., from Park Place to Folsom Place, to the WHITE CONSTRUCTION CO., Milwaukee, at $1.79 per sq. yd.

Bids are asked by Board of Public Works until Aug. 7 for paving with brick on concrete foundation Ogden Ave., from North Water to Market St., and Vliet St., from Third to Seventh St. Charles J. Poetsch is City Engr.

MILWAUKEE, WIS.—THE WHITE CONSTRUCTION CO. has been awarded contract by the Board of Public Works for 15,303 sq. yds. of asphalt paving on Sycamore, Sixth, Seventh and Eighth Sts., at $2.30 per sq. yd.

MINNEAPOLIS, MINN.—The lowest bid received for macadamizing two miles of road in Edina Mills has been submitted, it is reported, by Buckley & Kennedy, at $6,749, and the lowest for macadamizing six miles in Orono Township by Turnham & Talbert, at $20,145.

ST. PAUL, MINN.—The contract for macadamizing Mississippi St. has been awarded to LAUER & PRENDERGAST, at $10,300. Bids were opened on July 19.

Bids will be received until Aug. 5 by the Board Public Works, M. J. McMahon, Clk. pro tem, for paving with asphalt Wabash St.

WELLINGTON, KAN.—The Council on July 13 awarded contract for paving with asphalt portions of Washington, Harvey and Lincoln Aves. to the KAW VALLEY PAVING CO., of Topeka, at $98,467 for Conveto asphalt, or $99,873 for sheet asphalt.

INDEPENDENCE, MO.—Jackson County has awarded contract to DAVIDSON BROS., Kansas City, Mo., for grading road south and west from Dallas a distance of 5,900 ft. at $3,255.

ENGLAND, ARK.—The Commissioners of Improvement District have awarded contract to HOT SPRINGS CONSTRUCTION CO., Hot Springs, Ark., to construct eight miles of concrete sidewalks.

JONESBORO, ARK.—The city will expend $76,000 for paving the streets in improvement district No. 5.

ALAMOGORDO, N. MEX.—The County Commissioners of Otero County have decided to build a scenic highway from Alamogordo to High Rolls in Sacramento Mountain. Estimated cost, $12,000.

TACOMA, WASH.—Contract for concrete walks and curbs in Dist. 703 East E St. and other streets has been awarded to ALBERT ANDERSON, at $3,500.

Contract for paving North 26th St. and other streets has been awarded to BARBER ASPHALT CO., at $36,666.

Contract for grading South 39th St. has been awarded to WELLS CONSTRUCTION CO., at $7,871.

CENTRALIA, WASH.—The contract for improving the streets in local improvement district No. 12 has been let to the CENTRALIA LAND & GRAVEL CO., at $20,909.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported the estimated cost of the following street improvements: North Broadway and other streets, asphalt paving, $6,500; 26th Ave. and other streets, concrete walks, $23,400; Tenth Ave. and other streets, concrete walks, $11,600.

The Board of Public Works has awarded contract as follows: Planking, Eighth Ave. and other streets, to J. A. ZINKAN at $5,281; grading, Central Pl. and other streets, to the JAHN CONTRACTING CO., at $9,626.

ALBANY, ORE.—The WARREN CONSTRUCTION CO. was awarded the following contracts on July 14 for paving, covering Second Washington to Lyon, Ferry, Broadalbin and Ellsworth to Third Sts., at $2.25 for rock and bitulithic surface, 75 cts. per yd. for excavation, 20 cts. for embankment, $12.50 for inlets, 70 cts. for 6-in. sewer and 40 cts. for bitulithic headers.

SAN BERNARDINO, CAL.—Council has awarded contract to E. R. WERDIN & CO. for paving Third St., from G St. to the Santa Fe depot, at $12,825, which was nearly $5,000 lower than the estimate made by the engineers. Other bids were: Barber Asphalt Co., $17,983; Johnson-Shea Co., $16,159; Fairchild-Gilmore Co., $15,126; Engineer's estimate, $17,400. Contract for paving Rialto Ave., from Mt. Vernon Ave. to the west city limits, was let to the JOHNSON-SHEA CO., at $3,228. Other bids were: B. F. Ford, $3,283; Rife & Cave, $3,248; Highway Construction Co., $3,310.

B. F. FORD has been awarded contract for paving Base Line, from Arrowhead Ave. to Waterman Ave., at $9,050. Other bids were: Rife & Cave, $9,534; Highway Construction Co., $9,521; Johnson-Shea Co., $9,912. Estimate of the engineers, $9,521.

The HIGHWAY CONSTRUCTION CO. has been awarded contract for paving Third St., from Arrowhead Ave. to A St., at $5,608. The bid of B. F. Ford was rejected on account of irregularity. Other bids were: Rife & Cave, $6,143; Johnson-Shea Co., $6,017. Engineers' estimate, $5,894.

GUELPH, ONT.—The WESTRUMITE PAVING CO., of Welland, Ont., has been awarded contract for 20,000 yds. of paving here.

MOOSE JAW, SASK.—Bids are asked by Alderman Ellis until 8.30 p. m., Aug. 9, for the construction of about 67,000 sq. ft. of concrete sidewalks, 370 sq. ft. of concrete approach, 800 lin. ft. of curb, 2,100 sq. ft. of creosote block crossings and 10,500 lin. ft. of concrete gutter. Darlington Whitmore is City Engr.

MANUFACTURING PLANTS.

NASHUA, N. H.—The Wonalancet Co., manufacturers of carded cotton for woolen mills, have bought recently six acres of land within a mile of Nashua Junction, on the Boston & Maine R. R. tracks, it is stated, on which will be erected a main building, 200 × 100 ft., storehouse 300 × 100 ft. Cost, $150,000. Lester F. Thurber, of Nashua, is Pres. This item was erroneously published last week under Nashua Junction, Mass.

FRANKLIN, MASS.—The Franklin Felt Co. has awarded the contract for constructing the proposed mill on Fisher Farm to the TORRINGTON BUILDING CO., of Torrington, Conn., the buildings to be completed by Nov. 1. There will be two buildings of brick, one of them being 168 × 60 ft. and the other 266 × 60 ft. The boiler room will be 47 × 52 ft. and the engine room 37 × 40 ft., with suitable storehouses.

NEW BRITAIN, CONN.—The North & Judd Mfg. Co. has awarded the contract for a 1-story addition, 149 × 60 ft., to the B. H. HIBBARD CO., 162 Main St., this city.

NORWICH, CONN.—The Ponemah Mills Co. has had plans prepared for an addition, 670 × 200 ft., to be one story high, of heavy mill construction with basement and tooth roof. The estimated cost is $225,000.

ROCHESTER, N. Y.—The Shinola Co., 10 Jay St., George E. Davidson, Mgr., will build a 4-story factory addition on Jay St., 36 × 60 ft., of brick; mill construction. Cost, $30,000. Crandall & Strobel are Archs. and Engrs., 401 E. & B. Bldg.

The Starr Egg Carrier & Tray Mfg. Co., John C. Elms, Pres. and Treas., 719-745 Exchange St., will build a manufacturing plant on Jay St. near Delles St. The main building will be two stories high, 40 × 180 ft., with wing, 40 × 99 ft.; warehouse, 46 × 100 ft., two stories, and power-house, 35 × 55 ft. The buildings will be of either reinforced concrete or brick. G. C. Wright, 35 Grand Ave., is Arch. and Engr.

HORNELL, N. Y.—The Merrill Hosiery Co. will erect a 1-story brick silk mill, 80 × 200 ft., to cost $50,000. J. Mills Platt is Arch., Chamber of Commerce Bldg., Rochester, N. Y.

BUFFALO, N. Y.—Robert J. Reidpath, Arch., 30 Builders Exchange, has completed plans and let contracts for a 2-story reinforced-concrete addition, 100 × 167 ft., to the E. R. Thomas Motor Co.'s factory at Niagara and Ferry Sts., to cost $19,000. DUGGAN & EGAN, 705 Mutual Life Bldg., have secured the contract for the concrete work and the GEORGE KELLOGG STRUCTURAL CO., 12 Builders Exchange, the structural steel work.

NEWELL, PA.—We are officially advised that the General Chemical Co., 25 Broad St., New York, will build a chemical plant at Newell. The plans and specifications, which are being prepared by the company's engineering department, call for six or eight buildings of brick and steel fireproof construction. The company will do its own work on the interior and may construct the buildings. William H. Nichols is Chn. of Bd.; Edward H. Rising is Pres. of Bd., both of New York.

PHILADELPHIA, PA.—The TURNBULL CONSTRUCTION CO., Pennsylvania Bldg., has been granted a permit to begin the construction of a reinforced concrete factory.

PITTSBURG, PA.—The McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., has been awarded the contract to construct the $1,500,000 steel tube plant for the Republic Iron & Steel Co., at Hazleton, near Youngstown, Ohio, and work will be started at once. A subsidiary company was formed, called the Hazleton Steel Tube Co. The contract calls for the construction of three structures. One will be known as the threading and shipping building, a second is the skelp and furnace department, and the third the socket and blacksmith shops.

WILMINGTON, DEL.—The New Castle Leather Co. is preparing to build two additions to its plant at 13th and Poplar Sts. to cost about $20,000. The addition will consist of a 2-story structure.

EDGEFIELD, S. C.—The Beaver Dam Mills, of Edgefield, S. C., will be incorporated to take over the Edgefield Mfg. Co., whose property at Edgefield, S. C., has been purchased by Lewis W. Parker, of Greenville, S. C. The new company will have a capital stock of $200,000 and will double the mill's present capacity, increasing it from 5,000 spindles and 328 looms to 10,000 spindles, etc. B. F. Zimmerman, of Greenville, S. C., is the Pres. and Treas.

MILLEDGEVILLE, GA.—The Milledgeville Cotton Co. has let a contract to the WEBB PRESS CO., of Minden, La., for a cotton compress, with a capacity of a bale a minute, to be erected in Milledgeville.

MOSCOW, TENN.—A company has been formed here to be known as the Farmers' Gin Co., which will erect a gin plant at once. Dr. J. H. Cocke is interested.

LOUISVILLE, KY.—Bids were received by B. F. Avery & Sons, 15th and Main Sts., Louisville, on July 21, for the buildings of their proposed manufacturing plant, including electric power plant, erected complete, also on the several distinctive parts, as follows: Excavating, grading and concrete work; brick work, cut stone and terra cotta; timber and carpenter work; mill work; steel work and railings; cast-iron work; roofing; sheet-metal work; painting and glazing. There are to be eleven buildings, with a total floor area of nearly ten acres. George M. Brill is Engr., Marquette Bldg., Chicago, Ill. The WEST LAKE CONSTRUCTION CO., 717 Locust St., St. Louis, Mo., has been awarded the contract, at $340,000.

NEWARK, OHIO.—Richards, McCarty & Bulford, Archs., Ruggery Bldg., Columbus, Ohio, are preparing plans for a factory building, 40 × 220 ft., to be erected at Newark for the F. G. Edwin Smith Shoe Co.

INDIANAPOLIS, IND.—The Parry Auto Co., recently incorporated at $1,000,000, will remodel and enlarge a factory building in West Indianapolis. The company is in the market for machinery and equipment for the plant. D. M. Parry is Pres.

MOUNT VERNON, ILL.—The Mount Vernon Car Mfg. Co. has announced that it will build a steel car plant in connection with the wooden car plant it operates. The plant will cost $500,000 and will have, with the other plant, a daily output of fifty cars. The working force will be increased from 1,500 to 2,000. Work will be commenced immediately, but it will be about eight months before completion.

MILWAUKEE, WIS.—Esenwein & Johnson, Archs., 777 Ellicott Sq., Buffalo, N. Y., have awarded the general contract for a $35,000 boiler house, kitchen and laundry for St. Mary's Hospital, North Ave. and Lake Drive, to H. SCHMIDT & SON, Milwaukee.

The contract has been awarded to C. A. KLEPPE for the carpenter and wood work of a $50,000 shoe factory building at Hubbard and Harmon Sts., for the Weyenberg Shoe Co., according to plans by Herman J. Esser, Arch., Camp Bldg., Milwaukee.

BELOIT, WIS.—J. A. Vall, Mgr. of the Eclipse works of the Fairbanks-Morse Mfg. Co., at Beloit, announces the following construction work will be done this season: A 100-ft. addition to erecting shop; 75-ft. addition to paint shop; 100-ft. addition to warehouses. Several improvements will be made in 1910.

WATERTOWN, WIS.—The Millikan Co., Archs., Indianapolis, Ind., has been commissioned to draw plans for following buildings for G. B. Lewis Co., manufacturers of bookkeepers' supplies and boxes: Main plant, 209 × 80 ft., one story, reinforced-concrete construction, steel trussed roof; warehouse, 200 × 80 ft., two stories, solid brick; lumber shed, 600 × 50 ft., frame. Electric power will be used.

BILLINGS, MONT.—BARNARD & RECORD, of Minneapolis, Minn., have the contract for the concrete work on the Russell-Miller elevators. Ten elevators are to be built.

ST. LOUIS, MO.—Plans for a plant for the Friedman-Shelby Shoe Co., Ninth St. and Washington Ave., are being prepared. The building will be erected at Washington Ave. and Robbins Lane. The entire deal involves $400,000. The site of the new building is occupied by the building of the St. Louis Provident Association, which will move to a site at 22d and Locust Sts. The plans contemplate a new building for the Provident Association. The shoe company building will be erected by Robert S. Brookings, acting for Washington University. It will be nine or ten stories and will have a frontage of 65 ft. on Washington Ave. and a depth of 133 ft. on Robbins Lane. The rear of the property will be on Lucas Ave. The buildings will be constructed of reinforced concrete. The exterior of the first two stories will be of stone and pressed brick will form the exterior of the upper stories. It is reported the building will have 90,000 ft. of floor space. The general offices of the company, salesrooms and warerooms will be in the building which will be fireproof. It will be equipped with elevators, spiral chutes and an automatic sprinkler system. Construction work must begin by June 1, 1910, and the building must be ready for occupancy by April, 1911. The task of razing the present structure will begin as soon as the Provident Association vacates.

McKINNEY, TEX.—According to press reports it is proposed to build a cotton mill here. W. B. Carnes is Secy. of Commercial Club, McKinney, Tex.

SAPULPA, OKLA.—W. R. Wells has agreed to build a steel plant at Sapulpa that will employ 800 men. It is to be a rolling mill concern.

VALLIANT, OKLA.—J. H. Prince, owner of a water mill on Clear Creek, near this town, is considering the advisability of constructing a flour mill here, and will build some time this summer. Mr. Prince, with associates, have decided to erect a grain elevator near here this fall.

ADDY, WASH.—The lumber yards of the Isaac Dearinger Sawmill Co., west of this town, were destroyed by fire recently. They will be rebuilt.

UNDERWOOD, WASH.—The Dement Bros. Milling Co. has secured a power site from B. D. Cameron about three miles up the White Salmon River from where it empties into the Columbia River. A dam is to be built that will raise the river 80 ft., supplying power for the enterprise, as well as for other purposes. The mill, which is to have a 200-bbl. capacity, will be built at an estimated cost of $200,000 and will be located near the depot recently erected at Underwood.

JOHNSON, ARIZ.—The Arizona United Mines Co. is to erect a 125-ton smelter on its property at Johnson, at an approximate cost of $50,000. Wilson H. Brown is Mgr.

TONOPAH, NEV.—The directors of the Tonopah Extension Mining Co. have authorized the issuance of $187,500 of bonds, the proceeds from the sale of which are to be used for the erection of its $150,000 mill. The bonds are to be dated July 1, 1909, and will run for five years, with interest at the rate of 6% per annum, payable half-yearly.

PAYSON, UTAH.—Work will begin soon on a flour mill at Payson. The mill will be situated at the old mill site on H St. John Southworth, of Oakley, Idaho, will have charge of the mill, together with several Payson business men.

SALT LAKE CITY, UTAH.—The American Steel & Fuel Co., recently organized, has plans for the erection of a 1,000-ton iron smelter and rolling mill in Salt Lake Valley. A railroad to the mines in Wasatch and Utah Counties is contemplated. B. F. Bauer, of Salt Lake City, is Pres. and A. A. Sweet, of Salt Lake City, is Vice-Pres.

TRENTON, UTAH.—The project to build a factory at Trenton, in Cache County, for the manufacture of rolled oats, wheat flakes and corn flakes, has been perfected with the completion of articles of incorporation of the National Food Co., the capitalization being $400,000. Officers of the company are named as follows: E. P. South, Pres.; W. P. Funk, Vice-Pres. and Gen. Mgr.; Elias S. Woodruff, Secy.; E. Culbertson, Treas.; E. R. Miles, Jr., and John L. Smith are Directors. Work on the new plant will be started at once, the structure and equipment to cost $150,000.

MURRAY, IDAHO.—J. C. Avery and associate owners of the Harris shingle mill will commence immediately the erection of a sawmill near Murray, Idaho.

AROOSTOOK JUNCTION, N. B.—The Canadian Pacific Ry. Co. will call for bids soon for a round-house, turntable and pit to be built here at an estimated cost of $75,000. C. R. Ord is Master Mechanic, McAdam Junction, N. B.

EDMONTON, ALTA.—The CARTER-HALLS-ALDINGER CO., of Winnipeg, Man., and Chicago, Ill., has secured the contract for building the round-house and machine shop here for the Grand Trunk Pacific Ry. Co. Cost, $75,000. George W. Robb is Master Mechanic, Rivers, Man.

MISCELLANEOUS CONTRACTS.

(* denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

GRADE ELEVATION.—Minneapolis, Minn.—See item under Railways: Minnesota.

DITCH.—Lebanon, Ind.—Contract for the L. Q. Thompson ditch in Marion Township has been let to JOSEPH CONNER, of Lebanon, at $3,760.

EARTH FILL.—Fort Slocum, N. Y.—Bids will be received by the Constructing Q. M., U. S. A., until Aug. 21 for earth filling of fresh water pond.

*SEAWALL.—Galveston, Tex. Bids are asked by Capt. John C. Oakes, Corps Engrs., U. S. A., until noon, Aug. 30, for building seawall and fill at Fort Travis, Tex.

DRAINAGE.—Houston, Tex. KINNEAR BROS. & THORNBURG, of Cleveland, Ohio, have a contract for building a drainage system near Houston to cost about $150,000.

HOSE.—Hartford, Conn.—Bids for 3,000 ft. of 2½-in. hose web knit double jacket, will be received by the Board of Contract and Supply until 11 a. m., Aug. 9. Joseph Buths is Secy. of Bd.

*TUNNEL.—Chicago, Ill.—Bids will be received until noon, Sept. 1, by the Chicago Rys. Co. for the reconstruction of the La Salle St. tunnel. For details see advertisement in this issue.

FIRE ENGINE.—Washington, D. C.—Bids are asked by the District Commissioners until 2 p. m., Aug. 11, for furnishing to the Fire Department one second size Clapp & Jones fire engine.

*CEMENT.—Cincinnati, Ohio.—Bids will be received until 2 p. m., Aug. 17, by Col. Wm. T. Rossell, Corps Engrs., U. S. A., for furnishing about 10,000 bbls. of American Portland cement at Fernbank, Ohio.

IRON RAILINGS.—New York, N. Y.—Bids are asked until 3 p. m., Aug. 12, by the Department of Parks for erecting iron railings around the grass plots in Broadway, between 98th and 103d Sts., Boro. Manhattan.

REPAIRING PIER.—Philadelphia, Pa.—Bids will be received until noon, Aug. 10, by John C. Grady, Dir. Dept. of Wharves, Docks and Ferries, 348 Bourse Bldg., for the repair of the Race St. pier, Delaware River, Philadelphia.

DOCK.—Duluth, Minn.—HEYL & PATTERSON, of Pittsburg, Pa., have been awarded a contract by the Carnegie Coal Co. for the construction of a modern rapid-loading and unloading dock on the upper lakes, at Duluth, Minn.

*DOCK.—North Hempstead, N. Y.—Bids are asked until 3 p. m., Aug. 17, by the Town Clerk, for the construction of a pile and timber dock in Manhasset Bay, Port Washington, N. Y. For details see advertisement in this issue.

*RETAINING WALL.—Bay City, Mich.—Bids are asked until noon, Aug. 25, by the Bay City Park Commission for construction of a retaining wall, about 1,000 ft. long. Ambrose V. Powell, Engr., Chamber of Commerce Bldg., Chicago.

*VACUUM SYSTEM.—Houston, Tex.—Bids are asked by the Supervising Architect, Treasury Dept., Washington, D. C., until 3 p. m., Aug. 27, for installing a vacuum cleaning system in the U. S. post-office and court-house at Houston.

STEAMBOAT REPAIRS.—New York, N. Y.—Bids are asked until 2.30 p. m., Aug. 18, by Robert W. Hebbert, Comr. Public Charities, for furnishing all the labor and material required for making general repairs to the steamboat "The Bronx."

LEVEE.—Memphis, Tenn.—Bids were received on July 19 by Maj. M. L. Walker, Corps Engrs., U. S. A., and CHARLES W. LITTLE, of Caruthersville, Mo., has secured the contract for about 90,000 cu. yds. levee work at 16.24 cts. per cu. yd.

*DRINKING FOUNTAINS.—New York, N. Y.—Bids are asked by the Park Board, Harry Smith, Pres., until 3 p. m., Aug. 12, for furnishing all the labor and materials for setting and delivering eight bronze drinking fountains for parks, Boro. of the Bronx.

*JETTY.—Wilmington, Del.—Bids were received on July 27 by Capt. L. H. Rand, Corps Engrs., U. S. A., for furnishing and placing

stone in jetty at mouth of Broadkill River, Del. Lowest bidder was the Latta & Terry Construction Co., Philadelphia, at $3.35 per ton.

DREDGING.—Wilmington, Del.—Bids were received by Capt. L. H. Rand, Corps Engrs., U. S. A., on July 21 for dredging (a) Appoquinmink and (b) Mispillion Rivers, Del.: Lowest bidder was the Pennsylvania Dredging Co., Camden, N. J., at (a) 12 cts. and (b) 20 cts. per cu. yd.

RIFLE BUTTS, ETC.—Philadelphia, Pa.—Bids are asked until 11 a. m., Aug. 28, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing rifle butts and markers' shelter, Philadelphia Navy Yard. Specifications are on file at office of Engineering News, New York.

CRANE TRACK.—Philadelphia, Pa.—Bids will be received at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Aug. 14, for constructing an extension of the crane track, Navy Yard, Philadelphia, as per specification No. 1653. Specifications are on file at office of Engineering News, New York.

DREDGING SLIP.—Boston, Mass.—Bids will be received until Aug. 28 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a slip between pier No. 2 and Dry Dock No. 2, dredging and new decking for Pier No. 8, as per Specification No. 1655. Specifications are on file at office of Engineering News, New York.

LEVEE.—Vicksburg, Miss.—Bids were received on July 21 at the United States Engineers' office by President Graves, of the Tensas Basin Levee Board, for building 210,000 cu. yds. of new levee at Gaines Landing, Ark. The work was awarded to LACY BROS., of Arkansas City, Ark., at 16.45 cts. per cu. yd. The work is to be completed by Jan. 1.

TELEPHONE SERVICE.—Wyncote, Wyo.—A contract has been entered into by the Project Engineer of the North Platte project, Nebraska-Wyoming, on behalf of the Government and the PLATTE VALLEY TELEPHONE CO. for telephone service in connection with the North Platte project for a period of six years, from July 1, 1909, to July 1, 1915, in continuation of an existing contract which expired July 1, 1909.

BARGE CANAL.—Albany, N. Y.—The plans and specifications for Barge Canal Contract No. 2-E, prepared by Frank M. Williams, State Engr. and Surveyor, have been approved by the State Canal Board. This contract is for the construction of the canal from the Mohawk River at Waterford to a point above Lock No. 3. The work called for is the completion of the work left undone at the time the original contractor for Contract No. 2 withdrew from the contract. The approximate cost of the work to be done is $263,000. It is expected bids will be asked shortly.

BARGE CANAL.—Albany, N. Y.—In accordance with the bids submitted on July 13, F. C. Stevens, Supt. Public Works, has awarded Barge Canal contracts as follows: Contract No. 20-A, to HOUSTON BARNARD, Powers Bldg., Rochester, N. Y., for $490,502; Contract No. 20-B, to S. PEARSON & SON, INC., Long Island City, N. Y., for $933,194; Contract No. 20-C, to AMERICAN PIPE & CONSTRUCTION CO., 112 N. Broad St., Philadelphia, Pa., for $585,720; Contract No. 23, to MILLARD & LUPTON CO., Allegany Ave. and Tulip St., Philadelphia, Pa., for $1,887,036. Itemized prices, etc., were given in issue of July 22.

BARGE CANAL.—Albany, N. Y.—F. C. Stevens, Supt. Public Works, has awarded Barge Canal Contract No. 20-D, providing for the dredging of 36 miles of channel in the Mohawk River between Yosts and Rexford Flats, to the AMERICAN PIPE & CONSTRUCTION CO., 112 N. Broad St., Philadelphia, Pa., for $2,661,000. The Engineer's estimate of the cost of the work was $2,260,000. Owing to the fact that the bid was more than 10% in excess of the engineer's estimate it was necessary to have the approval of the State Engineer and the Canal Board before the award could be made. Itemized bids, etc., were given in issue of July 22.

*LOCK PIT.—Detroit, Mich.—Bids were received as follows on July 28, by Lieut.-Col. C. McD. Townsend, Corps Engrs., U. S. A., for excavating a lock pit at St. Mary's Falls Canal, Mich. (a) Class A, 151,500 cu. yds. excavation, (b) Class B, 242,500 cu. yds., (c) channeling rock, 139,000 sq. ft., (d) total: John Marsch, Chicago, Ill., (a) 47½ cts. per cu. yd., (b) 98½ cts. per cu. yd., (c) 29½ cts. per sq. ft., (d) $339,705; Great Lakes Dredge & Dock Co., Chicago, (a) 45 cts., (b) $1.68, (c) 30 cts., (d) $371,175; The Breakwater Co., Cleveland, Ohio, (a) 48½ cts., (b) $1.23, (c) 30 cts., (d) $413,452; MacArthur Bros. Co., Chicago, (a) 60 cts., (b) $1.18, (c) 35 cts., (d) $426,700; Coast & Interior Contracting Co., Fayettesville, N. Y., (a) 75 cts., (b) $1.17, (c) 30 cts., (d) $439,050; Wm. J. Newman and John P. Conrick, Sault Ste. Marie, Mich., (a) 60 cts., (b) $1.26, (c) 35 cts., (d) $445,100; H. E. Talbot Co., Dayton, Ohio, (a) 90 cts., (b) $1.18, (c) 30 cts., (d) $464,200; Grant Smith & Co. and Locher, Grosse Ile, Mich., (a) 72 cts., (b) $1.62, (c) 42 cts., (d) $560,310.

U. S. POSSESSIONS.

CRANES.—Panama.—Bids were received as follows on July 26 by the Isthmian Canal Commission, Washington, for furnishing two 20-ton coaling cranes for use on the Isthmus: American Hoist & Derrick Co., St. Paul, Minn., $13,316; Brown Hoisting Machinery Co., Cleveland, Ohio, $15,420; Browning Engineering Co., Cleveland, Ohio, $13,250; Orton & Steinbreener, Chicago, $12,700; Industrial Works, Bay City, Mich., $14,000; Ohio Locomotive Crane Co., Bucyrus, Ohio, $13,000.

ENGINEERING SUPPLIES.—Panama.—Bids were received as follows on Aug. 2 by the General Purchasing Officer of the Isthmian Canal Commission, Washington, for furnishing engineering supplies, among them (a) 8,400 car wheels, and (b) 2,625 untreated piles, from 25 to 70 ft. long, long-leaf yellow pine, Douglas fir or cypress:

On the wheels: American Car & Foundry Co., New York, $71,280; Griffin Wheel Co., 138 E. Jackson St., Chicago, $...,910; Mount Vernon Car Mfg. Co., Mt. Vernon, Ill., $78,652; Pierson & Co., New York, $69,594; Geo. S. Fowler, for Maryland Car Wheel Works, Baltimore, $63,224.

On the piles: American Tie & Timber Co., 11 Broadway, New York, $28,491; Bay City Lumber Co., Mobile, Ala., $24,063; G. Elias & Bros., Buffalo, $24,632.50; William D. Gill & Son, Baltimore, $24,375; S. E. Naylor & Co., Gulfport, Miss., $19,867; J. R. Reynolds & Bros., 116 Broad St., New York, $20,260; Southern Sawmill Co., Ltd., New Orleans, $20,576; Charles Nelson Co., 112 Market St., San rFancisco, 28 cts. per lin. ft.

CONTRACT PRICES.

PAVING.—Albany, N. Y.—The itemized bids received on July 19 by the Board of Contract and Supply, Albany, for the improvement of Morris St., from Lake Ave. to Ontario St., were as follows: (A) Edward F. Dillon, Albany, Shawmut paving block; (b) Holler & Shepard, Rochester, N. Y., Patterson paving block; (c) Mulderry Bros., Albany, Johnsonburgh paving block; (D) North Hudson Contracting Co., Albany, Shawmut paving block; (E) Michael F. Dollard, Albany, Clearfield paving block:

	(A)	(B)	(C)	(D)	(E)
4,460 sq. yds. brick pavement	$2.35	$2.41	$2.37	$2.00	$2.38
60 sq. yds. driveways	2.35	2.41	2.45	2.00	2.38
40 sq. yds. relaying pavement	1.50	1.50	1.70	.80	1.50
2,875 lin. ft. straight curb	.90	.90	.88	.83	.90
50 lin. ft. circular curb	1.15	1.50	1.50	1.00	1.40
30 lin. ft. relaying curb (on concrete)	.75	.60	.50	.30	.50
20 lin. ft. relaying curb (on sand)	.20	.40	.36	.20	.35
200 sq. ft. zag walk, 4'	.20	.22	.22	.23	.22
14,300 sq. ft. flag walk, 5'	.23	.25	.24	.25	.23
3,800 sq. yds. sod	.35	.45	.35	.30	.35
200 sq. ft. relaying walk	.06	.09	.08	.08	.09
90 cu. yds. limestone screenings	2.80	3.50	2.90	2.50	3.00
130 trees	3.00	7.50	5.60	3.00	5.00
70 lin. ft. relaying crosswalk	.25	.30	.24	.20	.25
600 lin. ft. 12-in. pipe	.97	1.65	1.35	1.10	1.40
26 6-in. Y's	2.75	3.90	3.80	2.20	3.75
60 water services	22.50	22.00	23.00	25.00	22.50
3 manholes	50.00	50.00	45.00	45.00	50.00
2 basins	80.00	90.00	90.00	90.00	85.00
Days to complete, at $5	50	75	60	50	60
Totals	$21,247	$23,416	$22,144	$19,715	$22,022

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

IRRIGATION PUMPS.—Willows, Cal.—D. W. Ross, Ch. Engr., Sacramento Valley Irrigation Co., writes us to be placed in touch with manufacturers of pumps.

BRONZE STATUE.—Trinidad, Colo.—W. R. Lewis, Supt., Water Works, desires to communicate with concerns who can supply a bronze statue of a horse, life size.

BELL RINGING DEVICE.—St. Louis, Mo.—Rev. Henry Thobe, 1835 N. 18th St., desires information concerning an electrical device or machine to ring large church bells.

VARNISH MACHINERY.—Montreal, P. Q.—We are in receipt of a request from Hutchins & Matley, 10 Exchange Court, Hospital St., to furnish them with names of manufacturers of varnish machinery, pumps, kettles, tanks, taps, etc.

TRADE PUBLICATIONS.

CRANE HOISTS.—Shephard Electric Crane & Hoist Co., 50 Church St., New York City. Bulletin 502. Paper; 8½ x 11 ins.; pp. 4; illustrated.

This bulletin illustrates in a very general way a few types of cranes and traveling hoists.

CONCRETE SURFACE FINISH.—Association of American Portland Cement Manufacturers, Land Title Bldg., Philadelphia, Pa.; 6 x 9 ins.; 28 pp.; illustrated.

The above is the title of Bulletin No. 10 of the Association, Vol. 4, No. 1, of The Concrete Review. It contains a number of useful hints as to methods and results in procuring desirable finishes on concrete surfaces.

INVERTED ARC LAMPS.—Prime Electric Co., 143 Liberty St., New York City. Catalog P 1. Paper; 4 x 8 ins.; pp. 12; illustrated.

An inverted arc lamp for use on posts and column tops is the main theme of this little catalog.

WATT-HOUR METERS.—Fort Wayne Electric Works, Fort Wayne, Ind. Bulletin 1115. Paper; 8 x 10½ ins.; pp. 7; illustrated.

Only the general features of a type of single-phase, induction watt-hour meter, called "K. 2," are shown here.

ARC LAMPS.—Fort Wayne Electric Works, Fort Wayne, Ind. Bulletins 1112 and 1116. Paper; 8 x 10½ ins.; pp. 7 each; illustrated.

These two bulletins set forth the details of construction of two very similar types of arc lamp for multiple use on power and lighting circuits.

STEAM TURBINES.—Ball & Wood Co., Elizabethport, N. J. Paper; 6 x 9 ins.; pp. 24; illustrated.

The Smoot modification of the Rateau design of low-pressure steam turbine is outlined here with a little general matter on the economy of using low-pressure turbines with reciprocating engines.

ELECTRICITY IN A BREWERY.—Crocker-Wheeler Co., Ampere, N. J. Bulletin 111. Paper; 7 x 10 ins.; pp. 11; illustrated.

This contains an article on the electrical equipment of Peter Doelger's Brewery, New York City, reprinted from the "American Brewer," Feb., 1909. There is also a German translation of the article.

STEEL CAR WHEELS.—Carnegie Steel Co., Pittsburg, Pa.; 8 x 5½ ins.; pp. 46; illustrated.

This pamphlet is entitled "Schoen Steel Wheels; Designs and Specifications." It has for its object the presenting of a number of designs, together with specifications governing the manufacture of this wheel.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 50.

STREET PAVING.

Borough of Red Bank, N. J.

Bids are requested for paving with vitrified or shale brick those portions of Front Street in the Borough of Red Bank, New Jersey, extending first from the westerly line of the Rue Garage property westwardly to Hubbards Bridge; and second, from the easterly line of Globe Court eastwardly to Throckmortons Bridge.

Complete specifications and all necessary information as to details of work and materials will be furnished upon application to George D. Cooper, Civil Engineer, Red Bank, N. J. All bids must be sealed and must reach the hands of A. C. Harrison, Clerk of the Borough Council, not later than 7.30 P. M., Monday, August 23d, 1909.

Each bid must be accompanied by a certified check drawn in the amount of one thousand dollars, which will serve as a guaranty for the formal execution of the contract outlined in the bids.

CHARLES H. ROOT,
Mayor.

A. C. HARRISON,
Borough Clerk,
Red Bank, N. J.

WEST POINT, N. Y., August 4, 1909.—Sealed proposals in triplicate, will be received here until 12 o'clock noon, August 19, 1909, for furnishing and installing Electric and Combination Gas and Electric Light Fixtures in Double Officers' Quarters Nos. 10, 11, 12, 13, Lieutenant's Quarters No. 5, and Bachelor Officers' Quarters, as per drawings and specifications in the office. The United States reserves the right to accept or reject any or all proposals or any part thereof. Forms for proposals furnished upon application. Address QUARTERMASTER, West Point, N. Y.

U. S. ENGINEER OFFICE, Galveston, Tex., July 31, 1909.—Sealed proposals, in duplicate, for Sea Wall and Fill at Fort Travis, Tex., will be received here until 12 M., August 30, 1909, and then publicly opened. Information furnished on application. JOHN C. OAKES, Capt., Engrs.

PIPE AND CASTINGS.

City of New Bedford, Mass.
Office of the New Bedford Water Board,
August 6th, 1909.

Sealed proposals addressed to the New Bedford Water Board, and endorsed "Proposals for Furnishing Cast-Iron Water Pipe and Special Castings," will be received at the office of the Board, Room 40, Masonic Bldg., New Bedford, Mass., until three o'clock P. M. of Tuesday, the 17th day of August, 1909, at which time and place they will be publicly opened and read.

Each bid must be accompanied by a properly certified check for two thousand ($2,000) dollars, payable to the City of New Bedford, said check to be returned to the bidder unless he fails to execute the contract should it be awarded to him.

A bond of thirty-five thousand ($35,000) dollars will be required for the faithful performance of the work.

The contract will require the delivery of the pipe and special castings in two lots.

Schedule A will include 550 tons of 36" pipe, Class B; 4,200 tons of 36" pipe, Class D; 730 tons 30" pipe, Class D; 423 tons in different sizes and classes varying from 24" to 6", and 220 tons of special castings.

Schedule B will include 610 tons in sizes varying from 12" to 6", inclusive, and 20 tons of special castings.

Delivery upon Schedule A pipe and special castings to commence in October and to be completed in April, 1910.

Schedule B pipe and special castings to be delivered in the spring of 1910.

The Board reserves the right to reject any and all bids should they deem it for the interest of the City of New Bedford so to do.

All bids must be made upon the blank form of proposals which may be obtained, together with specifications and form of contract which will be required, at the office of the New Bedford Water Board, 40 Masonic Building, New Bedford, Mass.

Plans may be seen at the office of W. F. Williams, City Engineer.

WILLIAM J. BULLOCK,
J. ERNEST DIONNE,
WILLIAM E. SMITH,
LETTICE R. WASHBURN,
WILLIAM H. PITMAN,
New Bedford Water Board.
ROBERT C. P. COGGESHALL,
Superintendent.

LAYING WATER PIPES.

COMMONWEALTH OF MASSACHUSETTS.—Metropolitan Water and Sewerage Board.—Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2.30 o'clock P. M. on Monday, August 16, 1909, for laying 8,100 linear feet of 60-inch cast-iron water pipe in Boston and Newton. The work includes about 3,000 cubic yards of rock excavation. Plans for the work may be seen and pamphlets containing further information for bidders, forms of proposals, contract and specifications may be obtained at the office of the Chief Engineer, 1 Ashburton Place. The printed forms must be used in making proposals. The Board reserves the right to reject any or all bids or to accept the proposal deemed best for the Commonwealth. HENRY H. SPRAGUE, Chairman; HENRY P. WALCOTT, JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. DEXTER BRACKETT, Chief Engineer of Water Works. WILLIAM N. DAVENPORT, Secretary. Boston, August 3, 1909.

SEWER.

Office of Commissioners of Sewerage of Louisville, Ky.
(Incorporated.)

Sealed proposals for the construction of a sewer known as Section C-3, Beargrass Intercepter, Contract No. 43, of the Comprehensive system of sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage, until 12 o'clock noon, August 20th, 1909.

The work will consist mainly of building a reinforced concrete sewer, 4' 6" and 5' 2" diameter; total length, about 1,420 feet, and 13 to 25 ft. deep, and including

about 700 cu. yds. of concrete and 70,000 lbs. of steel.

Plans and specifications may be seen at the office of the Commissioners, and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposals for Section C-3, Beargrass Interceptor," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

W. C. NONES,
Chairman.

CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWER.

Borough of Fort Lee, N. J.

Sealed proposals will be received by the Mayor and Council of the Borough of Fort Lee, at a meeting to be held in Schlosser's Hotel, Main Street, Fort Lee, on Wednesday, August 18th, at 8 P. M., for the construction of a portion of the Dead Brook Sewer, including the Outlet into the Hudson River.

Plans and specifications can be seen and all necessary information obtained at the office of Ralph D. Earle, Jr., Borough Engineer, or at Schlosser's Hotel, Fort Lee, N. J.

All the bids must be presented by the bidders in person or their agents at the above stated time and place. No bids will be received previous to the hour designated in this notice, and none will be received thereafter. All bids will be opened and contents publicly announced at the above mentioned time and place.

Each bid must be accompanied by a certified check for ten (10) per cent. of the amount bid, and must be enclosed in a securely sealed wrapper endorsed, "Bid for the construction of a portion of the Dead Brook Sewer, Fort Lee, N. J."

A bond will be required from the successful bidder for the faithful performance of the contract.

The Mayor and Council reserves the right to reject any or all bids.

Dated, July 28th, 1909.

JOHN C. ABBOTT,
Mayor.
C. S. LEBRIGHT,
Clerk.

EARTH CONCRETE DAM.

City of New Britain,
Water Department.

Sealed proposals for constructing an earth-concrete dam in the town of Burlington, Conn., will be received by the Board of Water Commissioners of the City of New Britain, Conn., until Tuesday, noon, August 17, 1909. Specifications and plans can be seen at the office of the Board, City Building, West Main Street, New Britain. Bidders must call at that office in person as no specifications will be mailed on application. Bids will be received only from contractors of successful experience and record in important dam construction.

A bond in the sum of $10,000 will be required of the successful bidder, and the proposal must be accompanied by a certified check for $1,000.

The right to reject any or all proposals received, or to accept any proposal which the Board of Water Commissioners deems safest and most advantageous for the City, is reserved by the Board.

H. DAYTON HUMPHREY,
CLAYTON A. PARKER,
P. J. EGAN,
Board of Water Commissioners.
PERCY M. BLAKE,
Chief Engineer.
New Britain, Conn., July 30, 1909.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 27, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 27th day of August, 1909, and then opened, for the installation of a vacuum cleaning system, in the U. S. Post Office and Court House, at Houston, Texas, in accordance with the drawing and specification, copies of which may be had at this office or at the office of the Custodian at Houston, Texas, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR.

LA SALLE STREET TUNNEL.

Chicago, Ill.

Sealed proposals for the Reconstruction of the La Salle Street Tunnel are invited and will be received by THE CHICAGO RAILWAYS COMPANY, Chicago, Illinois, until 12 M. (Standard Time) on Wednesday, September 1st, 1909, and will be publicly opened by THE CHICAGO RAILWAYS COMPANY at a meeting held that day.

All proposals must be made upon blank forms, furnished by the BOARD OF SUPERVISING ENGINEERS, and in accordance with the plans, specifications and contract form issued by said Board and on file in the office of the Chief Engineer of the said CHICAGO RAILWAYS COMPANY, in the Borland Block, at the southeast corner of La Salle and Monroe Streets, Chicago, Illinois.

The plans, specifications, form of contract and proposal may be obtained on application therefor.

The work in general includes the entire removal of the present tunnel, approaches, dock walls, etc., etc., and constructing a reinforced concrete tunnel, approximately thirty-nine (39) feet wide and two thousand (2,000) feet long, approaches, retaining walls, etc., etc., necessary to complete a double track two-bore street railway tunnel, ready for roadbed and track laying. The excavation ranges from the street grade to about sixty (60) feet below said grade, all of which excavation will have to be made in "open cut." Also the construction of a concrete "horse shoe" tunnel internal diameter ten (10) by eleven (11) feet, approximately seven hundred (700) feet in length, with two vertical shafts ten (10) feet in diameter and approximately ninety (90) feet deep.

Approximately two hundred and ninety (290) lineal feet of the above work will be in the river section.

The work to be let in one contract and to commence within thirty (30) days after the award of the same.

All proposals must be delivered in sealed packages, addressed to the President of THE CHICAGO RAILWAYS COMPANY, 181 La Salle Street, and said package endorsed "Proposal for the Reconstruction of the La Salle Street Tunnel."

Each proposal must be accompanied by a certified check or cash, to the amount of Twenty-five Thousand ($25,000.00) Dollars. All certified checks must be drawn on some responsible bank, doing business in the City of Chicago.

Said amount of Twenty-five Thousand ($25,000.00) Dollars will be held by THE CHICAGO RAILWAYS COMPANY until the contract has been awarded and signed. The return of said amount of twenty-five Thousand ($25,000.00) Dollars to the bidder, to whom the award of said work shall have been made, is conditioned upon his appearing within five (5) days after receiving notice of such award, with bondsmen, and executing a contract with said CHICAGO RAILWAYS COMPANY for the work so awarded, and giving bond in the sum of Two Hundred and Fifty Thousand ($250,000.00) Dollars, satisfactory to THE CHICAGO RAILWAYS COMPANY, for the faithful performance of the contract for the work above mentioned. If the bidder, to whom the award for said work shall have been made, fails or refuses to sign the contract, then the said amount of Twenty-five Thousand ($25,000.00) Dollars will be forfeited to said CHICAGO RAILWAYS COMPANY.

THE CHICAGO RAILWAYS COMPANY reserves the right to reject any and all bids.

Unbalanced bids will not be considered, in awarding the contract.

BION J. ARNOLD,
Chairman Board No. 1.
Chicago, July 28, 1909.

BRIDGE.

Fredonia, N. Y.

The Town of Pomfret will erect either a reinforced concrete arch or a steel girder bridge. Span is 80 feet, width of driveway 30 feet, with two six-feet sidewalks. For other information address HENRY PETERSON, Town Supt., Fredonia, N. Y. All bids must be in by August 25th, 1909.

CONCRETE CURBING AND SIDEWALKS.

Borough of Ho-Ho-kus, County of Bergen, New Jersey.

Sealed proposals will be received by the Borough Council of the Borough of Ho-Ho-kus, Bergen Co., N. J., on or before the 10th day of August, at 8.30 P. M., in the Borough Hall in Ho-Ho-kus, N. J., for the laying of about 18,000 lineal feet of concrete curb and about 72,000 square feet of concrete sidewalks, with the necessary grading of sidewalks, etc. Cinders for foundation can be procured on the grounds of the Ho-Ho-kus bleachery adjacent to the work, to be screened when necessary as directed. Proposals to be sealed and addressed to the Borough Council of the Borough of Ho-Ho-kus and addressed Bid for Concrete Curb and Sidewalks. Specifications, blank proposals and further information can be obtained at the office of Wm. Ferguson & Son, Borough Engineers, No. 152 Market St., Paterson, N. J., or from W. H. Deer, Borough Clerk, Ho-Ho-kus, N. J.; also at the office of the Engineering News, No. 220 Broadway, New York City. A certified check to the amount of five hundred dollars, payable to the Collector of the Borough of Ho-Ho-kus, must accompany each bid as a guarantee of good faith on the part of the bidder and to insure execution of proper contracts and bond as required by the specifications. The Borough Council reserves the right to reject any or all bids.

WM. H. DEER,
Borough Clerk,
Ho-Ho-kus, N. J.

TWO-SPAN STEEL GIRDER BRIDGE AT VIRGINSVILLE.

County Controller's Office,
Reading, July 28th, 1909.

Sealed proposals will be received at this office up to 10 o'clock a. m., Thursday, August 19th, 1909, for the erection of a Two-Span Steel Girder Bridge with reinforced concrete floor and macadam roadway over the Maidencreek at Virginsville, Pa.

Plans and Specifications can be had on application at the County Commissioners Office at Reading, Pa. A deposit of Five Dollars must be made for each set of Plans taken out which will be refunded upon return of the same.

All bids must be accompanied with a certified check equal to 10% of the aggregate amount of the bid. The right is reserved to reject any or all bids.

A. L. RHOADS,
County Controller.

WATER SYSTEM.

Perry, Ga.

Sealed proposals will be received by the undersigned until 12:00 o'clock noon, August 18th, 1909, for furnishing machinery and materials, and performing all labor incident to the construction of a complete municipal water supply system in accordance with plans, details and specifications of requirements prepared, approved and now on file with the City Clerk, Perry, Georgia, and at the office of the Consulting Engineers, Atlanta, Georgia.

F. M. HOUSER, Mayor.
Perry, Georgia.
HAZLEHURST & ANDERSON,
Engineers,
Candler Bldg., Atlanta, Ga.

OFFICE OF THE CONSTRUCTING QUARTERMASTER, Fort Morgan, Alabama, July 30th, 1909.—Sealed proposals in triplicate will be received at this office until 1:30 P. M., August 30, 1909, for the sinking of one six-inch tubular deep well at Fort Morgan, Alabama. Specifications, blank proposals and further information furnished on applications. Specifications may be seen at this office. The United States reserves the right to reject or accept any or all bids or any part thereof. Proposals to be marked "Proposals for Sinking Well," and addressed to CAPTAIN H. B. CHAMBERLIN, Quartermaster U. S. Army, Constructing Quartermaster.

U. S. ENGINEER OFFICE, Cincinnati, O., Aug. 2, 1909.—Sealed proposals for furnishing about 10,000 barrels of American Portland Cement at Fernbank, O., will be received here until 2 P. M., Aug. 17, 1909, and then publicly opened. Information on application. WM. T. ROSSELL, Col. Engrs.

STATE ROADS.

STATE OF MARYLAND.
STATE ROADS COMMISSION,
UNION TRUST BUILDING,
BALTIMORE, MD.

NOTICE TO CONTRACTORS.

Sealed proposals for building six sections of State Highway aggregating about 20 miles, in the following counties of the State—

BALTIMORE COUNTY: On the road from the city limits to Westport towards Sweetzer's Bridge, a distance of about 1.84 miles in length;

HOWARD COUNTY: On the road between West Friendship and Sykesville, a distance of about 2 and 2/10 miles;

QUEEN ANNE'S COUNTY: On the road between Centreville and Church Hill, a distance of about three miles. And Chestertown towards Church Hill, about three miles;

WASHINGTON COUNTY: On the road from Hagerstown to Cleveland Spring, a distance of about five (5) miles;

MONTGOMERY COUNTY: On the road between Rockville and Gaithersburg, a distance of about 3.33 miles, beginning about one mile north of Rockville;

will be received by the State Roads Commission, at its offices in the Union Trust Building, Baltimore, Maryland, until 12:00 M. on the sixteenth day of August, 1909, at which time and place they will be publicly opened and read.

Bids must be made upon blanks to be furnished by the Commission, on application and payment of two dollars.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Act of the General Assembly of Maryland of 1908, Chapter 141, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission, this 2d day of August, 1909.

JOHN M. TUCKER,
Chairman.
J. C. BOWERMAN,
Secretary.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., August 2d, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M., on the 9th day of September, 1909, and then opened for the construction complete of the U. S. Post Office at Saratoga Springs, N. Y., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Postmaster at Saratoga Springs, N. Y., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 o'clock P. M., Sept. 3, 1909, and then opened, for furnishing the materials and labor of all kinds necessary for the construction and delivery of the Lloyd Harbor Light-House, Huntington Bay, New York, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to the Light-House Engineer, Tompkinsville, N. Y.

Situations Open

WANTED—At once, detailers for structural steel work. Apply to RADLEY STEEL CONST. CO., 624 East 19th St., New York. 6-1t

WANTED—Several structural steel detailers; state age, experience and salary. UNITED ENGINEERING & CONSTRUCTION CO., Portland, Oregon. 6-2t

Miscellaneous Wants

ESTIMATES, computations and mapping done by civil engineers in spare time. Address "L. A. 6," Engineering News, New York. 6-3t

PARTNER WANTED, with experience in cement or iron trades, or quarrying to take an interest and position in company developing deposits of fine white limestone, used by blast furnaces, foundries and cement plants. Small amount of capital will finish development and place project on a paying basis. Market in Northern Jersey and Eastern Pennsylvania. State business experience and amount of capital available. Address "B. B. 6," Engineering News, New York. 6-1t